

101.503-48/12 – including *Taq* pol., IFU-01
101.503-48u/12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **89S**

Lot-specific information

Olerup SSP[®] HLA-B low resolution screening

| | |
|----------------------------------|--|
| Product number: | 101.503-48/12 – including <i>Taq</i> pol. 101.503-48u/12u – without <i>Taq</i> pol. |
| Lot number: | 89S |
| Expiry date: | 2016-April-01 |
| Number of tests: | 48 tests – Product No. 101.503-48/48u 12 tests – Product No. 101.503-12/12u |
| Number of wells per test: | 47 + 1 |
| Storage - pre-aliquoted primers: | dark at -20°C |
| - PCR Master Mix: | -20°C |
| - Adhesive PCR seals | RT |
| - Product Insert | RT |

This Product Description is only valid for Lot No. 89S.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®] HLA-B LOW RESOLUTION SCREENING (72N)

The Lot-specific information for HLA B low resolution screening including and without *Taq* polymerase is described in one common Product Insert.

The HLA-B low resolution screening specificity and interpretation tables have been updated for the HLA-B alleles reported since the previous *Olerup SSP[®]* HLA-B low resolution screening lot was made (**Lot No. 72N**).

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The primers of the wells detailed below have been exchanged, modified or added compared to the previous lot.

| Well | 5'-primer | 3'-primer | rationale |
|------|-----------|-----------|---|
| 3 | - | Added | 3'-primer added for the B*13:12:02 allele. |
| 8 | - | Added | 3'-primer added for the B*42:19 allele. |
| 11 | - | Added | 3'-primer added for the B*58:44 allele. |
| 18 | - | Added | 3'-primer added for the B*35:222 allele. |
| 26 | Added | Added | Primer pair added for the B*58:36 allele. |
| 28 | - | - | Exchanged positive control primer pair. |
| 29 | - | Exchanged | 3'-primer exchanged for the B*44:03:17 allele to decrease oligomer formation. |
| 31 | - | - | Exchanged positive control primer pair. |
| 42 | - | Added | 3'-primer added for the B*57:62 allele. |
| 43 | Added | - | 5'-primer added for the B*58:39N allele. |

Changes in revision R01 compared to R00:

1. Primer mix 19 does not amplify the B*44:10 allele. This has been corrected in the Specificity and Interpretation Tables.

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Well **48** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup* SSP[®] HLA Class I, DRB, DQB1 and DPB1 amplicons as well as amplicons generated by a control primer pair.

PCR product sizes range from 75 to 430 base pairs.

The PCR product generated by the control primer pair is 430 base pairs.

| Length of PCR product | 105 | 200 | 105 | 80 | 75 | 80 |
|------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 5'-primer¹ | 164 | 340 | 440 | 45 | 45 | 43 |
| | ^{5'} -CAC ^{3'} | ^{5'} -Agg ^{3'} | ^{5'} -TTA ^{3'} | ^{5'} -Tgg ^{3'} | ^{5'} -Tgg ^{3'} | ^{5'} -Tgg ^{3'} |
| 3'-primer² | 231 | 2nd I | 507 | 59 | 58 | 57 |
| | ^{5'} -TgC ^{3'} | ^{5'} -AAA ^{3'} | ^{5'} -TTg ^{3'} | ^{5'} -CTC ^{3'} | ^{5'} -ggC ^{3'} | ^{5'} -CTC ^{3'} |
| A* | + | + | + | | | |
| B* | + | + | + | | | |
| C* | + | + | + | | | |
| DRB1 | | | | + | + | |
| DRB3 | | | | + | + | |
| DRB5 | | | | + | | |
| DQB1 | | | | | + | |
| DPB1 | | | | | | + |

¹The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide and codon numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

²The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon or the 2nd intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide and codon numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

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PRODUCT DESCRIPTION

HLA-B low resolution screening SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for grouping the B*07:02 to B*83:01 alleles into the corresponding serological groups B7 to B81 as well as primer pairs for recognizing the Bw4 and Bw6 sequence motifs.

PLATE LAYOUT

Each test consists of 48 PCR reactions in a 48 well cut PCR plate.

| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |

Wells 1 to 47 – HLA-B low resolution screening primers.

Well 48 – Negative Control.

The 48 well cut PCR plate is marked with ‘HLA-B low screening’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘89S’.

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

The PCR plates are covered with a PCR-compatible foil.

Please note: When removing each 48 well PCR plate, make sure that the remaining plates stay sealed. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

Only HLA-B alleles will be amplified by the HLA-B low resolution screening typing kit, except that the C*02:23 and C*04:77 alleles will be amplified by primer mix 1, the C*03:05, C*03:25, C*03:27, C*03:143 and C*03:167 alleles will be amplified by primer mix 3, the C*01:30 and C*12:87 alleles will be amplified by primer mix 4, the A*23:31, A*24:106, C*07:231 and C*16:10 alleles will be amplified by primer mix 6, the C*01:73 allele will be amplified by primer mixes 7, 26 and 31, the C*07:02:30 and C*08:16:02 alleles will be amplified by primer mix 7, the C*07:46 allele will be amplified by primer mix 8, the A*24:174 allele will be amplified by primer mix 13, the C*03:102 allele will be amplified by primer mixes 17 and 41, the C*03:179 allele will be amplified by primer mix 19, the C*07:302 allele will be amplified by primer mix 20, the C*15:51 allele will be amplified by primer mix 21, the C*03:129 and C*17:16 alleles will be amplified by primer mix 25, the C*15:25 allele will be amplified by primer mix 29, the C*15:39 allele will be amplified by primer mix 31, the C*15:02:04 allele will be amplified by primer mix 40, the C*03:19 allele will be amplified by primer mix 41, the C*06:72 allele will be amplified by

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primer mix 42, the C*02:06 and 02:47 alleles will be weakly amplified by primer mix 43 and the A*26:68, A*68:56, C*02:56, C*06:20 and C*12:50 alleles will be amplified by primer mix 45.

Thus, the interpretation of HLA-B low resolution typings is only influenced by these alleles and not by other alleles of other HLA class I genes.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B alleles recognized by the HLA Nomenclature Committee in July 2013¹ will be amplified by the primers in the HLA-B low resolution screening SSP kit. The HLA-B alleles will be grouped into their corresponding serological specificities^{2,3}.

¹HLA-B alleles listed on the IMGT/HLA web page 2013-July-25, release 3.13.1, www.ebi.ac.uk/imgt/hla.

²It is not possible to identify all serological splits and combinations of the B15 group of alleles, as the serological reactivity of several of the B*15 alleles is not known.

The resolution has been updated to fulfill the NMDP medium resolution confirmatory typing requirements effective from February 1st 2001.

DNA-based HLA-B typing resolution required:

| | |
|--|---|
| B*07:xx, B*08:xx, B*13:xx, B*14:xx, B*18:xx, B*27:xx, B*15:22, B*35:xx, B*37:xx, B*38:xx, B*39:xx, B*40:05, B*41:xx, B*42:xx, B*44:xx, B*45:xx, B*46:xx, B*47:xx, B*48:xx, B*49:xx, B*50:xx, B*51:xx, B*52:xx, B*53:xx, B*54:xx, B*55:xx, B*56:xx, B*57:xx, B*58:xx, B*59:xx, B*67:xx, B*73:xx, B*78:xx, B*81:xx, B*82:xx, | |
| B*40EJD ^a | 40:01, 40:07, 40:10, 40:12, 40:14, 40:15, 40:16 |
| B*40EJB ^b | 40:02, 40:03, 40:04, 40:06, 40:08, 40:09, 40:11, 40:13, 40:18, 40:19, 40:20 |
| B*15EJA ^c | 15:01, 15:04, 15:05, 15:06, 15:07, 15:20, 15:24, 15:25, 15:26N, 15:27, 15:28, 15:30, 15:32, 15:33, 15:34, 15:35, 15:36, 15:38, 15:39, 15:40, 15:43, 15:45 |
| B*15AHM ^d | 15:16, 15:17 |
| B*15EHZ ^e | 15:03, 15:09, 15:10, 15:18, 15:23, 15:29, 15:37, 15:47 |
| B*15CYP ^f | 15:02, 15:08, 15:11, 15:15, 15:21, 15:31, 15:44 |
| B*15AND ^g | 15:12, 15:14, 15:19 |
| B*1513 ^h | |

^aB60 serologic equivalent cluster.

^bB61 serologic equivalent cluster.

^cB62 serologic equivalent cluster.

^dB63 serologic equivalent cluster.

^eB70 serologic equivalent cluster.

^fB75 serologic equivalent cluster.

^gB76 serologic equivalent cluster.

^hB77 serologic equivalent cluster.

³The B*08:26, 08:50, 08:62, 08:85, 08:94 and the B*42:07 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*13:21, 13:35 and 13:59 and the B*44:135 and 44:158 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*14:08 and the B*39:25N, 39:30, 39:32-39:34, 39:47, 39:50, 39:74 and 39:82 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

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The B*18:29 and 18:72 and the B*35:32:01-35:32:02, 35:37, 35:53N, 35:64:01-35:64:02, 35:68:01-35:68:02, 35:99, 35:118-35:119 and 35:174 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*41:09 and the B*45:02 and 45:03 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*54:01:02 and the B*55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48, 55:50 and 55:57 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*55:04, 55:08, 55:13, 55:27, 55:46, 55:49 and the B*56:01:05, 56:15, 56:19N and 56:22 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B*55:23 and 55:32 and the B*56:18 and 56:31-56:32 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

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SPECIFICITY TABLE

HLA-B low resolution screening SSP typing

Specificities and sizes of the PCR products of the 47+1 primer mixes used for HLA-B low resolution screening SSP typing

| Primer Mix | Size of spec. PCR product ¹ | Size of control band ² | HLA-B serol. ³ | Amplified HLA-B alleles ^{4,5} |
|-------------------------|--|-----------------------------------|--|---|
| 1^{6,10} | 110 bp | 800 bp | 7, 703, 40, 41, 42, 48, 61 | *07:02:01-07:18:02, 07:20-07:32, 07:34-07:39, 07:41-07:47, 07:49N-07:50, 07:52, 07:54-07:59, 07:61-07:99, 07:101-07:121, 07:123-07:138, 07:140-07:154, 07:156-07:163, 07:166-07:198, 08:79, 15:138, 15:230, 15:241, 37:07, 40:15-40:16, 40:23, 40:32, 40:98, 40:136, 40:158, 40:183, 40:198, 40:231, 41:08, 42:05:01-42:05:02, 44:150, 48:05, 48:08, 48:15, C*02:23, C*04:77 |
| 2 | 215 bp | 1070 bp | 8, 44 | *08:01:01-08:05, 08:07-08:25, 08:27-08:49, 08:51-08:61, 08:63-08:64, 08:66-08:84, 08:86N-08:93, 08:95-08:111, 15:142, 15:180, 35:218, 44:49, 44:156, 49:25, 51:68 |
| 3 | 140 bp, 235 bp | 1070 bp | 7, 8, 13, 15, 35, 4005, 44, 50, 49, 61, 62, 77 | *07:20, 07:24, 07:60, 07:100, 07:131, 08:21, 08:25, 13:01:01-13:04, 13:06-13:08, 13:10-13:23, 13:25-13:38, 13:40-13:57, 13:59-13:66, 13:68, 13:70, 15:07:01-15:07:02, 15:36 ^w , 15:45, 15:55, 15:68, 15:89 ^w , 15:126, 15:207, 35:05:01-35:05:03, 35:16-35:17, 35:22, 35:30, 35:51, 35:58, 35:72, 35:89, 35:97, 35:113-35:114, 35:125, 35:164, 35:199, 35:232, 40:05, 40:71, 40:174, 44:08 ^w , 44:54, 44:57 ^w , 44:60, 44:106, 44:110, 44:135, 44:158, 46:12, 51:64, 51:148, 53:14, 55:51, 58:18, C*03:05, C*03:25, C*03:27, C*03:143, C*03:167 |
| 4⁷ | 130 bp, 265 bp | 800 bp | 12, 13, 14, 17, 21, 35, 40, 41, 44, 45, 47, 49, 50, 60, 61, 64, 65 | *13:01:01-13:04, 13:06-13:13, 13:15-13:23, 13:25-13:57, 13:59-13:68, 13:70, 14:01:01-14:02:08, 14:03-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:36, 15:46, 15:53, 15:106, 15:212, 18:44:01-18:44:02, 35:46-35:47, 35:63, 35:154, 35:207, 35:217, 40:01:01-40:01:29, 40:07, 40:10:01-40:10:02, 40:14:01-40:16, 40:22N-40:23, 40:25, 40:30-40:34, 40:36, 40:38, 40:42-40:43, 40:45, 40:47-40:49, 40:51-40:55, 40:58-40:63, 40:65-40:67, 40:69, 40:72:01-40:73, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:110, 40:112-40:114, 40:116-40:118N, 40:121, 40:123-40:126, 40:128-40:130, 40:132, 40:134-40:136, 40:139-40:141, 40:146-40:147, 40:150-40:156, 40:158, 40:160:01-40:160:02, 40:163-40:164, 40:166, 40:168, |

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| 5^B | 185 bp, 235 bp | 800 bp | 7, 16, 17, 27, 2708, 37, 38, 3901, 3902, 39, 64, 67 | *07:02:32, 07:197, 14:01:01-14:01:03, 14:07N-14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 27:01-27:05:15, 27:05:17-27:05:19, 27:05:21-27:06, 27:08-27:10, 27:12-27:13, 27:16-27:18, 27:20, 27:23, 27:26-27:27, 27:29, 27:31, 27:35-27:37, 27:39-27:42, 27:44-27:46, 27:48-27:61, 27:64N-27:69, 27:72-27:75, 27:77-27:80, 27:82-27:106, 37:02, 38:01:01-38:02:02, 38:02:04-38:03, 38:07-38:24, 38:26-38:32, 38:34N-38:43, 39:01:01:01-39:01:01:03, 39:01:03-39:01:08, 39:01:10-39:02:01, 39:03, 39:05:01-39:06:02, 39:07-39:09, 39:11, 39:14-39:15, 39:18, 39:19:02, 39:22, 39:24:01-39:39:01, 39:40:01N-39:44, 39:46-39:48, 39:50-39:62, 39:64-39:71, 39:73-39:75, 39:77, 39:79-39:82, 47:04-47:05, 48:21, 48:26, 67:01:01, 67:03 |
| 6 | 180 bp | 800 bp | 14, 35, 38, 39, 65 | *07:28, 08:87, 14:02:01-14:02:02, 14:02:04-14:02:05, 14:02:07-14:06:02, 14:09, 14:11, 14:13, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29-14:31, 14:33-14:37, 15:77, 15:189, 15:233, 35:26, 38:05, 38:33, 39:04, 44:16, 44:37:01-44:37:02, 44:64:01-44:64:02, 44:91, 44:132, 44:150, 52:26, 57:04, A*23:31, A*24:106, C*07:231, C*16:10 |
| 7 | 290 bp | 1070 bp | 15, 22, 62, 63, 71, 72, 75, 76, 77, 46 | *15:01:01:01-15:01:03, 15:01:06-15:02:06, 15:03:03, 15:04-15:08, 15:10:02-15:11:03, 15:11:05-15:15, 15:17:01:01-15:17:02, 15:19-15:21, 15:24:01-15:28, 15:30-15:36, 15:38:01-15:40, 15:42-15:46, 15:48, 15:50, 15:55-15:58, 15:60, 15:63, 15:65-15:66, 15:70-15:71, 15:73, 15:75-15:79N, 15:81-15:89, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:107, 15:109-15:113, 15:116-15:118, 15:120-15:122, 15:125-15:126, 15:128-15:129, 15:135-15:150, 15:152, 15:154-15:155, 15:157, 15:159-15:160, 15:162-15:172, 15:174-15:175, 15:177-15:179, 15:181N-15:185, 15:187-15:196, 15:199, 15:201-15:209N, 15:211, 15:213-15:219, 15:223-15:225, |

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| 8 | 165 bp, 220 bp, 285 bp, 330 bp | 1070 bp | 5, 8, 12, 21, 22, 37, 41, 42, 44, 45, 48, 51, 56, 57, 60, 62, 70, 71, 72, 82 | *08:01:01-08:05, 08:08N-08:13, 08:15-08:27, 08:29-08:36, 08:38-08:48, 08:50-08:73, 08:75-08:76, 08:78, 08:80-08:86N, 08:88, 08:90-08:106, 08:109-08:110, 13:46, 15:03:01-15:03:04, 15:09-15:10:02, 15:18:01-15:18:05, 15:23, 15:29, 15:37, 15:46-15:47:02, 15:49, 15:51-15:54, 15:61-15:62, 15:64:01-15:64:02, 15:69, 15:72, 15:74, 15:80, 15:83, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:106, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131-15:134, 15:143, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197-15:198, 15:200, 15:210, 15:212, 15:220-15:221, 15:226N, 15:229, 15:235, 15:238, 15:242-15:243, 15:252-15:253, 15:255, 15:259, 15:263, 15:266, 15:274-15:275, 15:281-15:282, 35:87, 37:12, 38:30, 40:12, 40:136, 40:231, 41:01-41:03:02, 41:05-41:09, 41:11-41:17, 41:19-41:28, 42:01:01-42:02, 42:04-42:08, 42:10-42:15, 42:17-42:19, 44:14-44:15, 44:18, 44:20, 44:62, 44:100, 44:166, 45:01-45:14, 51:08, 51:20, 51:36, 51:44N, 51:97, 51:141, 51:153, 52:19, 55:20, 55:56, 56:13, 57:09, 82:01-82:03, C*07:46 |
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| 21 | 170 bp | 800 bp | 16, 35, 38, 39, 3901, 3902, 67, 72 | *08:55, 15:69, 15:186, 35:35, 38:01:01-38:09, 38:11-38:21, 38:23-38:29, 38:31-38:35, 38:38-38:43, 39:01:01:01-39:01:01:03, 39:01:03-39:20, 39:22-39:24:02, 39:26-39:29, 39:31, 39:35, 39:37-39:42, 39:44-39:46, 39:48-39:49, 39:51-39:73, 39:75-39:81, 39:83, 40:184, 51:101, 58:20, 67:01:01-67:03, C*15:51 |
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| 26 | 290 bp 465 bp | 1070 bp | 13, 17, 21, 4005, 35, 40, 41, 46, 47, 50, 57, 60, 61, 62, 63 | *13:02:06, 13:26, 15:16:03, 15:20, 15:85, 15:194, 18:48, 35:46, 35:207, 40:02:01-40:06:07, 40:08, 40:09 [?] , 40:10:02 [?] -40:11:02 [?] , 40:13, 40:14:01 [?] -40:15 [?] , 40:18 [?] -40:19 [?] , 40:20, 40:22N [?] , 40:24 [?] -40:38 [?] , 40:39, 40:42 [?] -40:45 [?] , 40:47 [?] -40:50 [?] , 40:52 [?] -40:58 [?] , 40:61 [?] -40:65 [?] , 40:67 [?] -40:69 [?] , 40:70, 40:71 [?] , 40:72:02 [?] , 40:74 [?] -40:76 [?] , 40:78 [?] , 40:80 [?] -40:82 [?] , 40:84 [?] -40:88 [?] , 40:89, 40:90 [?] -40:92 [?] , 40:94, 40:95 [?] -40:96 [?] , 40:97, 40:98 [?] -40:121 [?] , 40:122, 40:123 [?] , 40:124:02 [?] -40:136 [?] , 40:141 [?] , 40:142N-40:144N, 40:145 [?] , 40:148 [?] -40:149 [?] , 40:151 [?] , 40:154 [?] , 40:156 [?] -40:169 [?] , 40:171 [?] , 40:173 [?] -40:176 [?] , 40:178 [?] -40:184 [?] , 40:187 [?] -40:208 [?] , 40:210 [?] -40:213 [?] , 40:214, 40:216N [?] -40:228 [?] , 40:229, 40:230 [?] -40:240 [?] , 40:244 [?] -40:246 [?] , 46:01:07, 46:33, 47:01:01:01-47:08, 57:05, 58:36, C*01:73 |
| 27⁶ | 105 bp | 1070 bp | 7, 8, 22, 41, 42 | *07:04, 07:25, 07:146, 08:01:01-08:05, 08:07-08:12:03, 08:14-08:19N, 08:21-08:24, 08:26-08:39, 08:41-08:54, 08:56:01-08:69, 08:71-08:78, 08:80-08:102, 08:104-08:111, 35:87, 40:136, 40:231, 41:01-41:08, 41:10-41:28, 42:01:01-42:02, 42:04-42:07, 42:09-42:18, 42:20, 44:166, 55:20 |
| 28⁹ | 325 bp | 800 bp | 7, 22, 27, 2708, 35, 42, 45, 46, 54, 55, 56, 67, 73, 78, 81, 82 | *07:02:01-07:02:39, 07:04-07:07, 07:09-07:15, 07:17-07:26, 07:28-07:31, 07:33:01-07:36, 07:39-07:46, 07:47 ^w , 07:48-07:49N, 07:51-07:68:03, 07:70-07:84, 07:86-07:179, 07:181N-07:198, 14:21, 15:76, 15:101, 15:255, 27:01-27:11, 27:13-27:15, 27:17, 27:19-27:21, 27:24-27:28, 27:30-27:38, 27:40-27:58, 27:60-27:76, 27:78-27:91, 27:93-27:106, 35:76, 35:186, 35:229, 38:26, 40:166, 42:01:01-42:02, 42:04-42:06, 42:08-42:10, 42:12-42:20, 44:90, 44:97, 45:06, 46:01:01-46:01:09, 46:02 ^w , 46:03-46:40, 46:42, 54:01:01-54:29, 55:01:01-55:05, 55:07-55:17, 55:19-55:59, 56:01:01-56:16, 56:18-56:22, 56:24-56:32, 56:34-56:39, 56:41, 67:01:01-67:03, 73:01-73:02, 81:01-81:06, 82:01-82:03, 83:01 |
| 29⁶ | 80 bp, 115 bp, 160 bp, 195 bp, 225 bp, 260 bp | 1070 bp | 12, 35, 37, 44, 45, 47, 57 | *08:49, 08:60, 08:76, 08:87, 35:38, 35:45, 35:71, 35:115, 35:169, 37:01:01-37:01:07, 37:01:09, 37:03N-37:06, 37:08, 37:10-37:37, 40:132, 40:178, 40:231, 42:13, 44:02:01:01-44:14, 44:16-44:17, 44:19N-44:36, 44:38-44:63, 44:65-44:134, 44:136-44:149N, 44:151-44:157, 44:159-44:165, 44:167-44:181, 51:42, 53:22, |

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| 30 | 215 bp | 800 bp | 5, 8, 12, 17, 21, 22, 41, 42, 44, 45, 51, 5102, 5103, 52, 53, 56, 62 | *08:09, 08:84, 13:46, 15:83, 41:01, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20-41:22, 41:25-41:26, 41:28, 42:04, 44:06, 44:15, 44:18, 44:20, 44:100, 45:01-45:14, 51:01:01, 51:01:03-51:01:08, 51:01:10-51:01:39, 51:01:41-51:02:01, 51:02:03-51:04, 51:06:01-51:07:01, 51:08-51:09:01, 51:10-51:14, 51:16-51:24:04, 51:26-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:88, 51:90-51:92, 51:94-51:102, 51:104-51:115, 51:117-51:118N, 51:120-51:131, 51:133-51:143, 51:145-51:147, 51:149N-51:154, 52:01:02, 52:01:04, 52:01:09, 52:02:01-52:03, 52:06:01-52:06:02, 52:09, 52:19, 52:21, 53:06, 55:20, 55:56, 56:13, 58:08:01 |
| 31 | 130 bp, 270 bp | 1070 bp | 17, 18, 22, 35, 37, 46, 51, 53, 62, 78 | *14:10, 15:57 ^w , 18:22, 18:69, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 35:190, 35:233, 37:04:01-37:04:02, 40:28, 46:01:01-46:39, 46:42, 51:04, 51:46, 51:56:01-51:56:02, 51:139, 53:02, 53:06, 53:28, 57:14, 58:09, C*01:73, C*15:39 |
| 32^{6,13} | 90 bp, 410 bp | 1070 bp | 15, 22, 27, 35, 47, 54, 55, 56, 78, 81, 82 | *07:65, 27:01 ^w , 27:02:01-27:11, 27:13-27:15, 27:17, 27:19-27:21, 27:24-27:28, 27:30-27:38, 27:40-27:58, 27:60-27:76, 27:78-27:91, 27:93-27:106, 35:76, 35:186, 35:229, 44:90, 44:97, 47:01:01:01-47:03, 47:06-47:08, 54:01:01-54:29, 55:01:01-55:05, 55:07-55:17, 55:19-55:59, 56:01:01-56:16, 56:18-56:22, 56:24-56:32, 56:34-56:39, 56:41, 81:01, 82:01-82:03, 83:01 |
| 33⁶ | 90 bp, 175 bp | 1070 bp | 15, 27, 35, 48, 60, 62, 75, 77, 81 | *07:174, 13:36, 15:02:01-15:02:06, 15:08, 15:11:01-15:11:05, 15:13:01-15:13:02, 15:15, 15:21, 15:31, 15:44, 15:55, 15:76 ^w , 15:88-15:89, 15:112, 15:121, 15:139, 15:144, 15:148, 15:170, 15:189, 15:191, 15:194, 15:209N, 15:213-15:215, 15:223, 15:265, 27:24, 35:46, 40:31, 40:45, 40:80, 48:01:01-48:01:04, 48:04, 48:06-48:07, 48:09, 48:11, 48:15-48:16, 48:18-48:20, 48:22, 48:24, 48:27-48:31, 56:39 ^w , 81:01-81:06 |
| 34 | 145 bp, 430 bp | 1070 bp | 44, 49, 59, 61 | *40:13, 40:19, 40:109, 40:117, 44:18, 44:25, 44:50, 44:95, 49:01:01-49:01:04, 49:04-49:25, 51:112, 53:30, 54:12, 56:21, 57:45, 57:51, 59:01:01:01-59:06 |
| 35⁶ | 120 bp, 210 bp | 800 bp | 5, 13, 15, 17, 22, 35, 45, 49, 50, 51, 5102, 5103, 52, 55, 56, 62, 63, 78 | *07:78, 07:84, 13:16, 13:31 ^w , 13:48, 13:62, 14:37, 15:04 ^w , 15:16:01-15:16:03, 15:42, 15:67, 15:95, 15:137 ^w , 15:254, 40:95, 40:148, 40:161, 46:32 ^w , 49:01:01, 49:01:03-49:10, 49:12-49:26, 50:01:01-50:02, 50:04-50:11, 50:13-50:16, 50:18-50:20, 50:31-50:33, 51:01:01-51:03, 51:05, 51:07:01-51:09:02, 51:11N-51:14, 51:16-51:24:04, 51:26-51:41N, |

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| 36 | 430 bp | 1070 bp | 5, 17, 27, 44, 51, 5102, 5103, 52, 53, 57, 58, 61 | *18:67, 27:02:01-27:02:02, 27:30, 27:53, 27:57, 27:62, 27:65N, 27:75, 27:77, 27:83, 27:95, 27:102, 37:34, 40:13, 40:19, 40:109, 40:117, 44:06, 44:25, 44:50, 44:95, 51:01:01-51:01:39, 51:01:41-51:24:04, 51:26-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:154, 52:01:01:01-52:19, 52:21-52:31, 53:01:01-53:02, 53:04-53:08:02, 53:10, 53:14-53:30, 57:01:01-57:11, 57:13-57:65, 58:01:01-58:02, 58:04-58:16:02, 58:18-58:29, 58:31N-58:46 |
| 37 | 145 bp | 1070 bp | 12, 21, 35, 40, 4005, 41, 45, 47, 50, 60, 61 | *07:133, 15:46, 15:53, 15:106, 15:143, 15:212, 18:48, 35:19, 35:47, 35:63, 35:154, 35:217, 39:69, 40:01:01-40:11:02, 40:14:01-40:16, 40:18, 40:20, 40:22N-40:40, 40:42-40:45, 40:48-40:75, 40:77-40:92, 40:94-40:95, 40:97-40:108, 40:111-40:116, 40:118N-40:136, 40:138-40:156, 40:158-40:184, 40:186-40:187, 40:189-40:200, 40:202-40:207, 40:210-40:240, 40:244-40:246, 41:01-41:04, 41:05 [?] , 41:06-41:25, 41:27-41:28, 44:09, 44:46, 44:75, 44:90, 44:129, 44:131, 45:01-45:14, 47:02, 47:03 ^w , 50:01:01-50:02, 50:04-50:05, 50:07-50:20, 50:31-50:33 |
| 38 | 300 bp | 1070 bp | 7, 12, 13, 15, 17, 18, 21, 27, 2708, 35, 37, 38, 39, 3902, 40, 4005, 41, 44, 45, 47, 48, 49, 50, 52, 60, 61, 62, 70, 72, 76 | *07:54, 07:123, 08:17, 08:38, 08:54, 08:101, 13:01:01-13:04, 13:06, 13:08-13:23, 13:25-13:35, 13:37-13:68, 13:70, 15:01:01:01-15:01:04, 15:01:06-15:01:18, 15:01:20-15:01:33, 15:03:01-15:07:02, 15:12, 15:14, 15:19-15:20, 15:24:01-15:27:03, 15:30, 15:32-15:36, 15:38:01-15:40, 15:42-15:43, 15:45-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:63, 15:65-15:66, 15:68-15:71, 15:73-15:75, 15:77-15:79N, 15:81-15:87, 15:91-15:92, 15:94N, 15:96-15:98, 15:101-15:107, 15:109-15:111N, 15:113, 15:116-15:118, 15:122-15:123, 15:125-15:129, 15:131-15:132, 15:135-15:138, 15:140-15:142, 15:145-15:147, 15:150-15:152, 15:154-15:160, 15:163-15:167, 15:169, 15:171-15:175, 15:178-15:179, 15:181N-15:185, 15:187-15:188, 15:190N, 15:192-15:193, 15:195, 15:199, 15:201-15:207, 15:210-15:212, 15:217-15:220, 15:224-15:225, 15:227-15:228, 15:231-15:237, 15:239-15:245Q, 15:247-15:251, 15:253, |

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| 39^{8,9} | 160 bp, 330 bp | 1070 bp | 22, 44, 45, 47, 54 | *08:87, 44:02:01:01-44:02:29, 44:06, 44:08-44:09, 44:11-44:12, 44:16, 44:19N-44:24, 44:27:01-44:27:02, 44:33-44:34:02, 44:41:01-44:41:02, 44:44, 44:48-44:49, 44:52N-44:53, 44:55, 44:59:01-44:59:02, 44:63, 44:66-44:68, 44:71-44:74, 44:80, 44:83-44:84, 44:86-44:87, 44:89-44:91, 44:93, 44:95, 44:97, 44:99-44:102, 44:104, 44:106, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126:01-44:127, 44:131-44:132, 44:137-44:138Q, 44:142, 44:145, 44:148-44:149N, 44:151-44:152, 44:162, 44:168-44:173, 44:176-44:177, 44:179, 54:01:01, 54:01:03-54:30, 83:01 |
| 40 | 180 bp, 210 bp | 1070 bp | 13, 15, 18, 35, 39, 40, 54, 55, 56, 59, 78 | *07:65, 13:06, 13:53, 14:37, 15:42, 15:86, 15:224, 18:04, 35:08:05, 35:42:02, 35:60, 35:185, 39:17, 39:63, 40:01:11, 40:58, 45:08, 46:18, 46:40, 54:01:01-54:02, 54:05N, 54:07-54:08N, 54:10, 54:12-54:13, 54:16-54:25, 54:27-54:30, 55:01:01-55:03, 55:05, 55:07, 55:10-55:12, 55:15-55:16, 55:18-55:19, 55:21, 55:25-55:26, 55:29-55:31, 55:33-55:45, 55:47-55:48, 55:50, 55:52-55:57, 55:59, 56:05:01, 56:06, 56:10, 56:23, 59:01:01:01-59:01:01:02, 59:05-59:06, 78:01:01-78:01:02, 78:02:02-78:03, 78:07, C*15:02:04 |
| 41 | 180 bp | 1070 bp | 12, 15, 21, 22, 44, 45, 49, 50, 51, 56, 61, 62, 82 | *13:03, 13:48, 15:73, 40:71, 44:10, 44:15, 44:18, 44:140, 45:01, 45:04-45:07, 45:11-45:14, 46:11, 49:01:01-49:03, 49:06, 49:08-49:17, 49:19N-49:26, 50:01:01-50:02, 50:04-50:08, 50:10-50:13, 50:15-50:19, 50:32, 51:15, 51:62, 51:106, 52:25, 54:03, 56:01:01-56:01:04, 56:01:06-56:02, 56:04, 56:07-56:08, 56:13-56:14, 56:16-56:17, 56:20:01-56:20:02, 56:24-56:30, 56:33-56:39, 56:41-56:42, 59:04, 82:01-82:03, C*03:19, C*03:102 |

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| 42⁶ | 90 bp, 240 bp | 800 bp | 57 | *55:14, 57:01:01-57:44, 57:46-57:50, 57:52-57:65, 58:36, C*06:72 |
| 43^{6,13} | 90 bp | 1070 bp | 5, 13, 15, 17, 39, 55, 56, 58, 60, 61, 62, 71 | *07:182N, 13:11, 15:18:03, 15:73, 15:224, 39:17, 40:48, 40:71, 51:62, 56:02, 56:04, 56:10, 58:01:01- 58:02, 58:04-58:29, 58:31N-58:35, 58:37-58:43, 58:45- 58:46, C*02:06^w, C*02:47^w |
| 44⁶ | 95 bp | 1070 bp | 8, 18, 22, 35, 37, 38, 39, 44, 51, 5102, 5103, 53, 78 | *07:65 ^w , 07:134 ^w , 08:32, 18:01:01:01-18:11, 18:13- 18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:65, 18:67- 18:91, 35:01:01:01-35:08:04, 35:08:06-35:09:03, 35:11:01-35:12:03, 35:14:01-35:15, 35:17-35:18, 35:20:01-35:24:02, 35:27, 35:29:01-35:45, 35:48, 35:50-35:62, 35:64:01-35:68:02, 35:70-35:72, 35:74- 35:75, 35:76 ^w , 35:77-35:79, 35:81-35:153, 35:155- 35:185, 35:187-35:190, 35:192-35:197, 35:199-35:206, 35:208-35:209, 35:211-35:216N, 35:218-35:225, 35:227-35:229, 35:231-35:233, 37:08, 38:06-38:07, 39:19:01-39:19:02, 44:06, 51:01:01-51:24:04, 51:26- 51:46, 51:48-51:103, 51:105-51:111, 51:113-51:117, 51:119-51:146, 51:148-51:154, 53:01:01-53:16, 53:18- 53:27, 53:29, 53:31, 56:06 ^w , 78:01:01-78:04, 78:07 |
| 45^{6,8} | 115 bp, 150 bp | 1070 bp | 15, 18,22, 27, 35, 39, 46, 55, 62, 72, 73, 75, 76 | *07:100, 13:31, 13:41, 15:01:01:01-15:01:04, 15:01:06- 15:01:16, 15:01:18-15:01:30, 15:01:32-15:01:33, 15:04, 15:07:01-15:08, 15:11:01-15:12, 15:14-15:15, 15:19, 15:24:01-15:24:02, 15:26N-15:28, 15:30, 15:32, 15:34-15:35, 15:38:01-15:38:02, 15:43, 15:45-15:46, 15:50, 15:53-15:54, 15:56-15:58, 15:60, 15:63, 15:66, 15:68, 15:70-15:71, 15:73, 15:75-15:77, 15:79N, 15:81-15:82, 15:85, 15:87, 15:92, 15:94N, 15:96- 15:97, 15:101-15:102, 15:104-15:105, 15:109- 15:111N, 15:113, 15:117-15:118, 15:120, 15:122, 15:125-15:126, 15:128-15:129, 15:135, 15:137, 15:140, 15:142-15:149N, 15:152, 15:154, 15:157, 15:159-15:160, 15:163-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:180-15:184, 15:187, 15:189-15:193, 15:201-15:203, 15:205-15:207, 15:209N, 15:211-15:212, 15:215, 15:217, 15:225, 15:227-15:228, 15:231-15:234, 15:236, 15:239, 15:241, 15:244-15:247, 15:251, 15:256-15:262N, 15:264, 15:267, 15:269-15:270, 15:272N, 15:276- 15:280, 18:19, 27:25, 27:75, 35:14:01-35:14:02, 35:43:01-35:44, 35:62, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135, 35:163, 35:185, 35:213, 39:18, 39:36, 44:146, 46:01:01-46:02, 46:04-46:05, 46:07N, 46:09- 46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:26- 46:32, 46:34-46:40, 46:42, 51:61:01-51:61:02, 52:21, 54:06, 55:21, 56:03, 73:01-73:02, A*26:68, A*68:56, C*02:56, C*06:20, C*12:50 |

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| 46 ¹⁴ | 360 bp | 1070 bp | Bw4 |
| 47 | 350 bp | 1070 bp | Bw6 |
| 48 ¹⁵ | - | - | Negative Control |

¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B low resolution screening SSP typings.

When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits the respective lengths of the HLA-specific PCR product(s) are given for the alleles amplified by these primer mixes.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

²The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B low resolution screening typing.

In addition, wells number 4 to 6, 10, 17, 20, 21, 28, 30, 31, 35 and 42 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

³The serological reactivity of all HLA-B alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

⁴For several HLA Class I alleles 1st and/or 4th exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in these regions are conserved within allelic groups.

⁵Due to sharing of sequence motifs, the C*02:23 and C*04:77 alleles will be amplified by primer mix 1, the C*03:05, C*03:25, C*03:27, C*03:143 and C*03:167 alleles will be amplified by primer mix 3, the C*01:30 and C*12:87 alleles will be amplified by primer mix 4, the A*23:31, A*24:106, C*07:231 and C*16:10 alleles will be amplified by primer mix 6, the C*01:73 allele will be amplified by primer mixes 7, 26 and 31, the C*07:02:30 and C*08:16:02 alleles will be amplified by primer mix 7, the C*07:46 allele will be amplified by primer mix 8, the A*24:174 allele will be amplified by primer mix 13, the C*03:102 allele will be amplified by primer mixes 17 and 41, the C*03:179 allele will be amplified by primer mix 19, the C*07:302 allele will be amplified by primer mix 20, the C*15:51 allele will be amplified by primer mix 21, the C*03:129 and C*17:16 alleles will be amplified by primer mix 25, the C*15:25 allele will be amplified by primer mix 29, the C*15:39 allele will be amplified by primer mix 31, the C*15:02:04 allele will be amplified by primer mix 40, the C*03:19 allele will be amplified by primer mix 41, the C*06:72 allele will be amplified by primer mix 42, the C*02:06 and 02:47 alleles will be weakly amplified by primer mix 43 and the A*26:68, A*68:56, C*02:56, C*06:20 and C*12:50 alleles will be amplified by primer mix 45.

⁶HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

⁷Primer mix 4 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes in B*40, B*41, B*45, B*49 and B*50 alleles.

101.503-48/12 – including *Taq* pol., IFU-01
101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: 89S**Lot-specific information**

⁸Primer mixes 5, 9, 39 and 45 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes.

⁹Primer mixes 9, 20, 28 and 39 may have tendencies of unspecific amplifications, most pronounced in primer mix 9.

¹⁰Primer mixes 1, 15, 19 and 20 have a tendency to giving rise to primer oligomer formation.

¹¹The B*57 and B*58 alleles might be faintly amplified by primer mix 9.

¹²The C*17:01 to C*17:04 alleles might be faintly amplified by primer mix 25.

¹³Primer mixes 32 and 43 may generate a false positive band of about 800 base pairs. This band should be disregarded when interpreting HLA-B low resolution screening typings.

¹⁴The Bw4-associated HLA-A specificities A9, A23, A24, A2403, A25 and A32 are not amplified by the primer pair in primer mix 46.

¹⁵Primer mix 48 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

‘w’, might be weakly amplified.

‘?’, nucleotide sequence information not available for the primer matching sequence.

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| INTERPRETATION TABLE | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|---|---|---|---|--------------------------|--------------------------|---|--------------------------|--------------------------|---------------------------|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|---|
| HLA-B low resolution screening SSP | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amplification patterns of the B*07:02 to B*83:01 alleles ¹⁴ | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Well | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Length of spec. | | 110 | 215 | 140 | 130 | 185 | 180 | 290 | 165 | 165 | 180 | 100 | 280 | 195 | 105 | 115 | 80 | 150 | 140 | 60 | 210 | 170 | 110 | 395 | 160 |
| PCR product(s) | | | | 235 | 265 | 235 | | | 330 | 390 | | 195 | | | 435 | 150 | | | | 400 | | | | | 425 |
| Length of int. pos. control ¹ | | 800 | 1070 | 1070 | 800 | 800 | 800 | 1070 | 1070 | 1070 | 800 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 800 | 1070 | 1070 | 800 | 800 | 1070 | 1070 | 1070 |
| 5'-primer(s) ² | | 5'-gAC ^{3'} 540 5'-TgA ^{3'} 527 | 5'-TCg ^{3'} 97 | 5'-AgC ^{3'} 363 5'-ggC ^{3'} 209 | 5'-CCg ^{3'} 103 | 5'-CCT ^{3'} 103 | 5'-CCg ^{3'} 103 | 5'-ggA ^{3'} 45 | 5'-ggA ^{3'} 45 | 5'-AAA ^{3'} 435 5'-ggA ^{3'} 45 | 5'-TTA ^{3'} 420 | 5'-AgA ^{3'} 206 | 5'-gTC ^{3'} 419 | 5'-TCT ^{3'} 142 | 5'-ggA ^{3'} 45 | 5'-Cgg ^{3'} 161 | 5'-gCT ^{3'} 167 | 5'-TCA ^{3'} 355 | 5'-gAC ^{3'} 206 | 5'-ggA ^{3'} 45 | 5'-TCT ^{3'} 142 | 5'-ggC ^{3'} 409 | 5'-gAA ^{3'} 246 | 5'-ggC ^{3'} 44 | 5'-ggC ^{3'} 44 |
| 3'-primer(s) ³ | | 5'-gCT ^{3'} 605 | 5'-TgA ^{3'} 272 5'-Tgg ^{3'} 272 | 5'-gCC ^{3'} 312 5'-gTg ^{3'} 309 | 5'-CgT ^{3'} 193 5'-CgT ^{3'} 193 | 5'-TAT ^{3'} 246 5'-TAT ^{3'} 246 | 5'-gCC ^{3'} 572 5'-TAT ^{3'} 246 | 5'-Tgg ^{3'} 165 | 5'-CCT ^{3'} 206 | 5'-Cag ^{3'} 559 5'-TCC ^{3'} 266 | 5'-CTC ^{3'} 559 | 5'-CCC ^{3'} 256 | 5'-TAT ^{3'} 3rdI | 5'-gTC ^{3'} 301 | 5'-ATC ^{3'} 309 5'-TgC ^{3'} 272 | 5'-TCT ^{3'} 234 | 5'-TCT ^{3'} 204 | 5'-gCT ^{3'} 463 | 5'-gGC ^{3'} 302 | 5'-gTT ^{3'} 259 5'-gTT ^{3'} 259 | 5'-ggg ^{3'} 311 | 5'-ggT ^{3'} 544 | 5'-gGA ^{3'} 317 | 5'-TgC ^{3'} 272 | 5'-ggT ^{3'} 302 5'-ggC ^{3'} 302 |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |



101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
|--|---------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *07:02:01-07:02:31, 07:02:33-07:02:39, 07:05:01-07:07, 07:10, 07:12-07:15, 07:18:01- 07:18:02, 07:21-07:23, 07:26, 07:29-07:31, 07:34- 07:35, 07:39, 07:41- 07:46, 07:49N, 07:52, 07:55-07:59, 07:61-07:64, 07:66-07:68:03, 07:70- 07:72, 07:74-07:77, 07:79- 07:80, 07:82-07:83, 07:86- 07:99, 07:101-07:121, 07:124-07:130, 07:132, 07:135N-07:138, 07:140- 07:145, 07:147-07:148, 07:150-07:154, 07:156- 07:161N, 07:163, 07:166- 07:173, 07:175-07:178, 07:181N, 07:183-07:191, 07:193-07:194, 07:196, 07:198 | B7, B7/blank B7/B42, Null, - | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 | |
| *07:02:32, 07:197 | - | 1 | | | | 5 | | | | | | | | | | | | | | | | | | | | 24 |
| *07:03, 07:08, 07:16, 07:32, 07:37 | B703/B7 , B7/blank | 1 | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *07:04, 07:25, 07:146 | B7, - | 1 | | | | | | | | | | | | | 14 | | | | | | | | | | | 24 |
| *07:09, 07:11, 07:17, 07:162 | B7, - | 1 | | | | | | | | | | | 12 | | | | | | | | | | | | | 24 |
| *07:19, 07:33:01- 07:33:02, 07:40, 07:48, 07:51, 07:53, 07:122, 07:139, 07:155, 07:164- 07:165 | B7/42, - | | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *07:20, 07:24, 07:131 | B7/blank , - | 1 | | 3 | | | | | | | | | | | | | | | | | | | | | | 24 |
| *07:27 | - | 1 | | | | | | | | | | 11 | | | | | | | | | 20 | | | | | 24 |
| *07:28 | B7 | 1 | | | | 6 | | | | | | | | | | | | | | | | | | | | 24 |
| *07:36, 07:81, 07:149 | B7, - | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| *07:38 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| *07:47 | B7 | 1 | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *07:50 | - | 1 | | | | | | | | | | 11 | | | | | | | | | | | | | | 24 |
| *07:54, 07:123 | B7, - | 1 | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *07:60 | - | | | 3 | | | | | | | | | | | | | | | | | | | | | | 24 |
| *07:65 | - | 1 | | | | | | | | | | | | | | | | | | 18 | | | | | | |
| *07:69, 07:85 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | 23 | 24 |
| *07:73 | - | 1 | | | | | | | | | | | | | | | 16 | | | | | | | | | 24 |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---|---|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | | |
| | | | 28 | | | | | | | | | | | | | | | | | | | 47 | | B7, B7/blank , B7/B42, Null, - | *07:02:01-07:02:31, 07:02:33-07:02:39, 07:05:01-07:07, 07:10, 07:12-07:15, 07:18:01- 07:18:02, 07:21-07:23, 07:26, 07:29-07:31, 07:34 07:35, 07:39, 07:41- 07:46, 07:49N, 07:52, 07:55-07:59, 07:61-07:64, 07:66-07:68:03, 07:70- 07:72, 07:74-07:77, 07:79 07:80, 07:82-07:83, 07:86 07:99, 07:101-07:121, 07:124-07:130, 07:132, 07:135N-07:138, 07:140- 07:145, 07:147-07:148, 07:150-07:154, 07:156- 07:161N, 07:163, 07:166- 07:173, 07:175-07:178, 07:181N, 07:183-07:191, 07:193-07:194, 07:196, 07:198 | |
| | | | 28 | | | | | | | | | | | | | | | | | | | 47 | | - | *07:02:32, 07:197 | |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | | B703/B7 , B7/blank | *07:03, 07:08, 07:16, 07:32, 07:37 |
| | | 27 | 28 | | | | | | | | | | | | | | | | | | | | 47 | | B7, - | *07:04, 07:25, 07:146 |
| | | | 28 | | | | | | | | | | | | | | | | | | | | 47 | | B7, - | *07:09, 07:11, 07:17, 07:162 |
| | | | 28 | | | | | | | | | | | | | | | | | | | | 47 | | B7/42, - | *07:19, 07:33:01- 07:33:02, 07:40, 07:48, 07:51, 07:53, 07:122, 07:139, 07:155, 07:164- 07:165 |
| | | | 28 | | | | | | | | | | | | | | | | | | | | 47 | | B7/blank , - | *07:20, 07:24, 07:131 |
| | | | | | | | | | | | | | | | | | | | | | | 46 | | | - | *07:27 |
| | | | 28 | | | | | | | | | | | | | | | | | | | | 47 | | B7 | *07:28 |
| | | | 28 | | | | | | | | | | | | | | | | | | | 46 | | | B7, - | *07:36, 07:81, 07:149 |
| | | | | | | | | | | | | | | | | | | | | | | 46 | | | - | *07:38 |
| | | | w | | | | | | | | | | | | | | | | | | | | 47 | | B7 | *07:47 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | | - | *07:50 |
| | | | 28 | | | | | | | | | | 38 | | | | | | | | | | 47 | | B7, - | *07:54, 07:123 |
| | | | 28 | | | | | | | | | | | | | | | | | | | | 47 | | - | *07:60 |
| | | | 28 | | | | 32 | | | | | | | 40 | | | w | | | | | | 47 | | - | *07:65 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | | - | *07:69, 07:85 |
| | | | 28 | | | | | | | | | | | | | | | | | | | | 47 | | - | *07:73 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|-------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *07:78 | - | 1 | | | | | | | | 10 | | | | | | | | | | | | | | | 24 |
| *07:84 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *07:100 | - | | | 3 | | | | | | | | | | | | | | | | | | | | | 24 |
| *07:133 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *07:134 | - | 1 | | | | | | | | | | | | | | | | 18 | | | | | | | 24 |
| *07:174 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *07:179, 07:195 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *07:180 | - | 1 | | | | | | | | | | | | | | | | | | | | | | 23 | |
| *07:182N | Null | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *07:192 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| *08:01:01-08:01:21, 08:05, 08:08N, 08:10- 08:12:03, 08:15-08:16, 08:18-08:19N, 08:22- 08:24, 08:27, 08:29- 08:31, 08:33-08:34, 08:39, 08:41-08:48, 08:51, 08:53:01-08:53:02, 08:56:01-08:59:02, 08:61, 08:63-08:64, 08:66-08:69, 08:71-08:73, 08:75, 08:80- 08:83, 08:86N, 08:90- 08:93, 08:95-08:100, 08:104-08:106, 08:109 | B8, Null, - | | 2 | | | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *08:02-08:03, 08:52, 08:78 | B8, - | | 2 | | | | | | 8 | | | | | | | | | | | | | | | | |
| *08:04, 08:110 | B8/blank , - | | 2 | | | | | | 8 | | 11 | | | | | | | | | | | | | | 24 |
| *08:07, 08:14, 08:74, 08:77, 08:108, 08:111 | B8, - | | 2 | | | | | | | | | | | | | | | | | | | | | | 24 |
| *08:09, 08:84 | B8, - | | 2 | | | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *08:13, 08:20, 08:40, 08:70, 08:103 | B8, - | | 2 | | | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *08:17, 08:54 | - | | 2 | | | | | | 8 | | 11 | | | | | | | | | | | | | | 24 |
| *08:21 | B8 | | 2 | 3 | | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *08:25 | B8 | | 2 | 3 | | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *08:26, 08:50, 08:62, 08:85, 08:94, 42:07 ⁶ | B8, - | | | | | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *08:28, 08:37, 08:89, 08:107 | B8, - | | 2 | | | | | | | | | | 12 | | | | | | | | | | | | 24 |
| *08:32 | B8 | | 2 | | | | | | 8 | | | | | | | | | | 18 | | | | | | 24 |
| *08:35 | - | | 2 | | | | | | 8 | | | | 12 | | | | | | | | | | | | 24 |
| *08:36 | - | | 2 | | | | | | 8 | | | | | | | | | | | | | | | | |
| *08:38, 08:101 | - | | 2 | | | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *08:49 | - | | 2 | | | | | | | | | | | | | | | | 17 | | 20 | | | | 24 |
| *08:55 | - | | 2 | | | | | | 8 | | | | | | | | | | | | | | 21 | | 24 |
| *08:60, 08:76 | - | | 2 | | | | | | 8 | | | | | | | | | | | | | | | | 24 |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------------------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | 28 | | | | | | | 35 | | | | | | | | | | | | | 47 | - | *07:78 |
| | | | 28 | | | | | | | 35 | | | | | | | | | | | | | 47 | - | *07:84 |
| | | | 28 | | | | | | | | | | | | | | | | | | | 45 | 47 | - | *07:100 |
| | | | 28 | | | | | | | | | 37 | | | | | | | | | | | 47 | - | *07:133 |
| | | | 28 | | | | | | | | | | | | | | | | | w | | | 47 | - | *07:134 |
| | | | 28 | | | | | 33 | | | | | | | | | | | | | | | 47 | - | *07:174 |
| | | | 28 | | | | | | | | | | | | | | | | | | | | 47 | - | *07:179, 07:195 |
| | | | | | | | | | | | | | | | | | | | | | | 46 | - | *07:180 | |
| | | | 28 | | | | | | | | | | | | | | 43 | | | | | | 47 | Null | *07:182N |
| | | | 28 | | | | | | | | | | | | | | | | | | | | | - | *07:192 |
| | | 27 | | | | | | | | | | | | | | | | | | | | | 47 | B8, Null, - | *08:01:01-08:01:21, 08:05, 08:08N, 08:10- 08:12:03, 08:15-08:16, 08:18-08:19N, 08:22- 08:24, 08:27, 08:29- 08:31, 08:33-08:34, 08:39, 08:41-08:48, 08:51, 08:53:01-08:53:02, 08:56:01-08:59:02, 08:61, 08:63-08:64, 08:66-08:69, 08:71-08:73, 08:75, 08:80 08:83, 08:86N, 08:90- 08:93, 08:95-08:100, 08:104-08:106, 08:109 |
| | | 27 | | | | | | | | | | | | | | | | | | | | 46 | B8, - | *08:02-08:03, 08:52, 08:78 | |
| | | 27 | | | | | | | | | | | | | | | | | | | | | 47 | B8/blank , - | *08:04, 08:110 |
| | | 27 | | | | | | | | | | | | | | | | | | | | | 47 | B8, - | *08:07, 08:14, 08:74, 08:77, 08:108, 08:111 |
| | | 27 | | | 30 | | | | | | | | | | | | | | | | | | 47 | B8, - | *08:09, 08:84 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | B8, - | *08:13, 08:20, 08:40, 08:70, 08:103 |
| | | 27 | | | | | | | | | | 38 | | | | | | | | | | | 47 | - | *08:17, 08:54 |
| | | 27 | | | | | | | | | | | | | | | | | | | | | 47 | B8 | *08:21 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | B8 | *08:25 |
| | | 27 | | | | | | | | | | | | | | | | | | | | | 47 | B8, - | *08:26, 08:50, 08:62, 08:85, 08:94, 42:07 ⁶ |
| | | 27 | | | | | | | | | | | | | | | | | | | | | 47 | B8, - | *08:28, 08:37, 08:89, 08:107 |
| | | 27 | | | | | | | | | | | | | | | | | | 44 | | | 47 | B8 | *08:32 |
| | | 27 | | | | | | | | | | | | | | | | | | | | | 47 | - | *08:35 |
| | | 27 | | | | | | | | | | | | | | | | | | | | | 47 | - | *08:36 |
| | | 27 | | | | | | | | | | 38 | | | | | | | | | | | 47 | - | *08:38, 08:101 |
| | | 27 | | 29 | | | | | | | | | | | | | | | | | | | 47 | - | *08:49 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | - | *08:55 |
| | | 27 | | 29 | | | | | | | | | | | | | | | | | | | 47 | - | *08:60, 08:76 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *08:65 | - | | | | | | | | 8 | | | | | | | | | | | | | | | 23 | 24 |
| *08:79 | - | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | 24 |
| *08:87 | - | | 2 | | | | 6 | | | | | | | | | | | | | | | | | | 24 |
| *08:88, 08:102 | - | | 2 | | | | | | 8 | | | | | | | | 16 | | | | | | | | 24 |
| *13:01:01-13:01:06, 13:17, 13:20, 13:22:01- 13:23, 13:25, 13:28- 13:29, 13:43, 13:50, 13:52, 13:57, 13:60- 13:61, 13:63N | B13, Null, - | | | 3 | 4 | | | | | | 10 | | | | | | | | 17 | | | | | | |
| *13:02:01-13:02:05, 13:02:07-13:02:15, 13:08, 13:15, 13:18-13:19, 13:27, 13:30, 13:32- 13:34, 13:37-13:38, 13:40, 13:42, 13:44- 13:45, 13:47, 13:49N, 13:54-13:56N, 13:64- 13:66, 13:68, 13:70 | B13, Null, - | | | 3 | 4 | | | | | | 10 | | | | | | | | | | | | | | |
| *13:02:06 | B13 | | | 3 | 4 | | | | | | 10 | | | | | | | | | | | | | | |
| *13:03 | B49/B15 | | | 3 | 4 | | | | | | | | | | | | | | | | | | | | |
| *13:04, 13:10 | B49/B15 , B13 | | | 3 | 4 | | | | | | | | 12 | | | | | | | | | | | | |
| *13:06 | B13 | | | 3 | 4 | | | | | | | | | | | | | | | 17 | | | | | |
| *13:07N | Null | | | 3 | 4 | | | | | | 10 | | | | | | | | 17 | | | | | | |
| *13:09, 13:67 | - | | | | 4 | | | | | | 10 | | | | | | | | | | | | | | |
| *13:11 | B13 | | | 3 | 4 | | | | | | 10 | | | | | | | | | | | | | | |
| *13:12:01-13:13, 13:51 | B13, - | | | 3 | 4 | | | | | | | | | | | | | | | 17 | | | | | |
| *13:14 | B13 | | | 3 | | | | | | | 10 | | | | | | | | | | | | | | |
| *13:16 | B13 | | | 3 | 4 | | | | | | 10 | | | | | | | | | | | | | | |
| *13:21, 13:35, 13:59, 44:135, 44:158 ⁷ | - | | | 3 | 4 | | | | | | | | | | | | | | | | | | | | |
| *13:26 | - | | | 3 | 4 | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *13:31 | - | | | 3 | 4 | | | | | | 10 | | | | | | | | | | | | | | |
| *13:36 | - | | | 3 | 4 | | | | | | 10 | | | | | | | | | 17 | | | | | |
| *13:39 | - | | | | 4 | | | | | | 10 | | | | | | | | | 17 | | | | | |
| *13:41 | - | | | 3 | 4 | | | | | | 10 | | | | | | | | | | | | | | |
| *13:46 | - | | | 3 | 4 | | | | 8 | | | | | | | | | | | | | | | | |
| *13:48 | - | | | 3 | 4 | | | | | | | | | | | | | | | | | | | | |
| *13:53 | - | | | 3 | 4 | | | | | | | | | | | | | | | | | | | | |
| *13:58 | - | | | | | | | | | | 10 | | | | | | | | | | | | | | |
| *13:62 | - | | | 3 | 4 | | | | | | 9 | | | | | | | | | | | | | | |
| *14:01:01-14:01:03, 14:07N, 14:12, 14:14, 14:19, 14:26, 14:32 | B64, Null, - | | | | 4 | 5 | | | | | | | | | | | | | | | | | | 23 | 24 |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | ser. ⁵ | Well No. HLA-B allele ⁴ |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|--|
| | | 27 | | | | | | | | | | | | | | | | | | | | | 47 | - | *08:65 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | - | *08:79 |
| | | 27 | | 29 | | | | | | | | | | 39 | | | | | | | | | 47 | - | *08:87 |
| | | 27 | | | | | | | | | | | | | | | | | | | | | 47 | - | *08:88, 08:102 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 46 | B13, Null, - | *13:01:01-13:01:06, 13:17, 13:20, 13:22:01- 13:23, 13:25, 13:28- 13:29, 13:43, 13:50, 13:52, 13:57, 13:60- 13:61, 13:63N |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 46 | B13, Null, - | *13:02:01-13:02:05, 13:02:07-13:02:15, 13:08, 13:15, 13:18-13:19, 13:27, 13:30, 13:32- 13:34, 13:37-13:38, 13:40, 13:42, 13:44- 13:45, 13:47, 13:49N, 13:54-13:56N, 13:64- 13:66, 13:68, 13:70 |
| | 26 | | | | | | | | | | | | 38 | | | | | | | | | | 46 | B13 | *13:02:06 |
| | | | | | | | | | | | | | 38 | | | 41 | | | | | | | 46 | B49/B15 | *13:03 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 46 | B49/B15 , B13 | *13:04, 13:10 |
| | | | | | | | | | | | | | 38 | | 40 | | | | | | | | 46 | B13 | *13:06 |
| | | | | | | | | | | | | | | | | | | | | | | | 46 | Null | *13:07N |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | - | *13:09, 13:67 |
| | | | | | | | | | | | | | 38 | | | | | 43 | | | | | 46 | B13 | *13:11 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 46 | B13, - | *13:12:01-13:13, 13:51 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 46 | B13 | *13:14 |
| | | | | | | | | | | | 35 | | 38 | | | | | | | | | | 46 | B13 | *13:16 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 46 | - | *13:21, 13:35, 13:59, 44:135, 44:158 ⁷ |
| | 26 | | | | | | | | | | | | 38 | | | | | | | | | | 46 | - | *13:26 |
| | | | | | | | | | | | w | | 38 | | | | | | | | | 45 | 46 | - | *13:31 |
| | | | | | | | | 33 | | | | | | | | | | | | | | | 46 | - | *13:36 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | - | *13:39 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 45 | 46 | - | *13:41 |
| | | | | 30 | | | | | | | | | 38 | | | | | | | | | | 46 | - | *13:46 |
| | | | | | | | | | | | 35 | | 38 | | | 41 | | | | | | | 46 | - | *13:48 |
| | | | | | | | | | | | | | 38 | | 40 | | | | | | | | 46 | - | *13:53 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 46 | - | *13:58 |
| | | | | | | | | | | | 35 | | 38 | | | | | | | | | | 46 | - | *13:62 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | B64, Null, - | *14:01:01-14:01:03, 14:07N, 14:12, 14:14, 14:19, 14:26, 14:32 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | | Well No. |

Negative Control

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *14:02:01-14:02:02, 14:02:04, 14:02:07, 14:03- 14:04, 14:09, 14:11, 14:15-14:18, 14:20, 14:22- 14:23, 14:25, 14:27, 14:29, 14:31, 14:33-14:36 | B65, B14, - | | | | 4 | | 6 | | | | | | | | | | | | | | | | | 23 | 24 |
| *14:02:03, 14:02:06, 14:24, 14:28 | B65, - | | | | 4 | | | | | | | | | | | | | | | | | | | 23 | 24 |
| *14:02:05, 14:02:08, 14:30 | B65, - | | | | 4 | | 6 | | | | | | | | | | | | | | | | | 23 | |
| *14:02:09, 14:05- 14:06:02, 14:13 | B14, - | | | | | | 6 | | | | | | | | | | | | | | | | | 23 | 24 |
| *14:08, 39:25N, 39:30, 39:32-39:34, 39:47, 39:50, 39:74, 39:82 ⁸ | B39, B16, Null, - | | | | | | 5 | | | | | | | | | | | | | | | | | 23 | 24 |
| *14:10 | - | | | | | | 5 | | | | | | | | | | | | 17 | | | | | 23 | 24 |
| *14:21 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *14:37 | - | | | | | | 6 | | | | | | | | | | | | | | | | | 23 | 24 |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | | *14:02:01-14:02:02, 14:02:04, 14:02:07, 14:03: B65, 14:04, 14:09, 14:11, B14, - 14:15-14:18, 14:20, 14:22 14:23, 14:25, 14:27, 14:29, 14:31, 14:33-14:36 | |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | | B65, - | *14:02:03, 14:02:06, 14:24, 14:28 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | | B65, - | *14:02:05, 14:02:08, 14:30 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | | B14, - | *14:02:09, 14:05- 14:06:02, 14:13 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | | B39, B16, Null, - | *14:08, 39:25N, 39:30, 39:32-39:34, 39:47, 39:50, 39:74, 39:82 ⁸ |
| | | | | | | 31 | | | | | | | | | | | | | | | | | 47 | | - | *14:10 |
| | | | 28 | | | | | | | | | | | | | | | | | | | | 47 | | - | *14:21 |
| | | | | | | | | | | 35 | | | | | 40 | | | | | | | | 47 | | - | *14:37 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *15:01:01:01- 15:01:01:02N, 15:01:03, 15:01:06-15:01:16, 15:01:18, 15:01:20- 15:01:30, 15:01:32- 15:01:33, 15:26N- 15:27:03, 15:32, 15:34- 15:35, 15:38:01-15:38:02, 15:50, 15:56, 15:60, 15:70-15:71, 15:75, 15:79N, 15:81-15:82, 15:92, 15:94N, 15:96- 15:97, 15:102, 15:104- 15:105, 15:109-15:111N, 15:113, 15:117-15:118, 15:122, 15:125, 15:128- 15:129, 15:135, 15:140, 15:145-15:147, 15:152, 15:159-15:160, 15:163- 15:164, 15:166-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:181N-15:184, 15:187, 15:190N, 15:192-15:193, 15:201, 15:203, 15:205- 15:206, 15:211, 15:217, 15:225, 15:227-15:228, 15:231-15:232, 15:234, 15:244-15:245Q, 15:247, 15:251, 15:257-15:258N, 15:260-15:262N, 15:264, 15:267, 15:272N, 15:276, 15:279-15:280 | B62, Null, - | | | | | | | 7 | | | | 12 | | | | | | | | 19 | | | | | |
| *15:01:02, 15:278 | B62, - | | | | | | | 7 | | 9 | | | 12 | | | | | | | 19 | | | | | |
| *15:01:04 | B62 | | | | | | | | | | | | 12 | | | | | | | 19 | | | | | |
| *15:01:17, 15:01:31, 15:05:01-15:06, 15:33, 15:39:01-15:40, 15:65, 15:78:01-15:78:03, 15:84, 15:107, 15:136, 15:141, 15:155, 15:179, 15:185, 15:195, 15:199, 15:218Q- 15:219, 15:237, 15:249 | B62, B62/blank, - | | | | | | | 7 | | | | | 12 | | | | | | | 19 | | | | | |
| *15:01:19, 15:28, 15:120, 15:149N, 15:246N | B62, Null, - | | | | | | | 7 | | | | | 12 | | | | | | | 19 | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----------------------|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | | | | | | | | | | | 38 | | | | | | | | 45 | | 47 | | B62, Null, - | *15:01:01- 15:01:01:02N, 15:01:03, 15:01:06-15:01:16, 15:01:18, 15:01:20- 15:01:30, 15:01:32- 15:01:33, 15:26N- 15:27:03, 15:32, 15:34- 15:35, 15:38:01-15:38:02, 15:50, 15:56, 15:60, 15:70-15:71, 15:75, 15:79N, 15:81-15:82, 15:92, 15:94N, 15:96- 15:97, 15:102, 15:104- 15:105, 15:109-15:111N, 15:113, 15:117-15:118, 15:122, 15:125, 15:128- 15:129, 15:135, 15:140, 15:145-15:147, 15:152, 15:159-15:160, 15:163- 15:164, 15:166-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:181N-15:184, 15:187, 15:190N, 15:192-15:193, 15:201, 15:203, 15:205- 15:206, 15:211, 15:217, 15:225, 15:227-15:228, 15:231-15:232, 15:234, 15:244-15:245Q, 15:247, 15:251, 15:257-15:258N, 15:260-15:262N, 15:264, 15:267, 15:272N, 15:276, 15:279-15:280 | |
| | | | | | | | | | | | | | 38 | | | | | | | | 45 | | 47 | | B62, - | *15:01:02, 15:278 | |
| | | | | | | | | | | | | | 38 | | | | | | | | | 45 | | 47 | | B62 | *15:01:04 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | | 47 | B62, B62/blank, - | *15:01:17, 15:01:31, 15:05:01-15:06, 15:33, 15:39:01-15:40, 15:65, 15:78:01-15:78:03, 15:84, 15:107, 15:136, 15:141, 15:155, 15:179, 15:185, 15:195, 15:199, 15:218Q- 15:219, 15:237, 15:249 | |
| | | | | | | | | | | | | | | | | | | | | | | 45 | | 47 | | B62, Null, - | *15:01:19, 15:28, 15:120, 15:149N, 15:246N |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | | |

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Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|---------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *15:02:01-15:02:06, 15:88, 15:112, 15:121, 15:139, 15:170, 15:213- 15:214, 15:223, 15:265 | B75, - | | | | | | | 7 | | | | | 12 | | | | | 17 | | 19 | | | | | |
| *15:03:01-15:03:02, 15:03:04, 15:47:01- 15:47:02, 15:49, 15:61, 15:98, 15:103, 15:123, 15:127, 15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242, 15:266, 15:274, 15:281-15:282 | B72, B70/blan k, - | | | | | | | | 8 | | | 11 | 12 | | | | | | | 19 | | | | | |
| *15:03:03 | B72 | | | | | | | 7 | 8 | | | 11 | 12 | | | | | | | 19 | | | | | |
| *15:04 | B62 | | | | | | | 7 | | | | | 12 | | | | | | | 19 | | | | | |
| *15:07:01-15:07:02, 15:126, 15:207 | B62, - | | | 3 | | | | 7 | | | | | 12 | | | | | | | 19 | | | | | |
| *15:08, 15:11:01- 15:11:03, 15:11:05, 15:15, 15:148, 15:191, 15:209N, 15:215 | B75/B62 , B75/62, Null, - | | | | | | | 7 | | | | | 12 | | | | | | | 19 | | | | | |
| *15:09 | B70 | | | | | | | | 8 | 9 | | | | | 14 | | | | | 19 | | | | | |
| *15:10:01, 15:37, 15:90, 15:99, 15:133, 15:229, 15:252 | B71, B70, - | | | | | | | | 8 | | | | | | 14 | | | | | 19 | | | | | |
| *15:10:02 | B71 | | | | | | | 7 | 8 | | | | | | 14 | | | | | 19 | | | | | |
| *15:11:04 | B75 | | | | | | | | | | | | 12 | | | | | | | 19 | | | | | |
| *15:12, 15:14, 15:19, 15:270 | B76, - | | | | | | | 7 | | | | | 12 | 13 | | | | | | 19 | | | | | |
| *15:13:01-15:13:02 | B77, - | | | | | | | 7 | | | | | 12 | | 14 | | | 17 | | 19 | | | | | |
| *15:16:01-15:16:02, 15:67, 15:95, 15:254 | B63, - | | | | | | | | | 9 | | | 12 | | 14 | | | | | 19 | | | | | |
| *15:16:03 | - | | | | | | | | | 9 | | | 12 | | 14 | | | | | 19 | | | | | |
| *15:17:01:01-15:17:02, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:273 | B63, - | | | | | | | 7 | | 9 | | | | | 14 | | | | | 19 | | | | | |
| *15:18:01-15:18:02, 15:18:04-15:18:05, 15:51- 15:52, 15:72, 15:93, 15:108, 15:114, 15:119, 15:134, 15:153, 15:176, 15:197-15:198, 15:200, 15:221, 15:226N, 15:238, 15:263, 15:275 | B71, B70, Null, - | | | | | | | | 8 | | | | 12 | | 14 | | | | | 19 | | | | | |
| *15:18:03 | B71 | | | | | | | | 8 | | | | 12 | | 14 | | | | | 19 | | | | | |
| *15:20 | B62 | | | | | | | 7 | | | | | 12 | | | | | 17 | | 19 | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|--|---|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | | | | | | 33 | | | | | | | | | | | | | | | 47 | B75, - *15:02:01-15:02:06, 15:88, 15:112, 15:121, 15:139, 15:170, 15:213- 15:214, 15:223, 15:265 | |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | B72, B70/blan k, - *15:03:01-15:03:02, 15:03:04, 15:47:01- 15:47:02, 15:49, 15:61, 15:98, 15:103, 15:123, 15:127, 15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242, 15:266, 15:274, 15:281-15:282 | |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | B72 *15:03:03 | |
| | | | | | | | | | w | | | | 38 | | | | | | | | 45 | 47 | B62 *15:04 | | |
| | | | | | | | | | | | | | 38 | | | | | | | | | 45 | 47 | B62, - *15:07:01-15:07:02, 15:126, 15:207 | |
| | | | | | | | | 33 | | | | | | | | | | | | | | 45 | 47 | B75/B62 , B75/62, Null, - *15:08, 15:11:01- 15:11:03, 15:11:05, 15:15, 15:148, 15:191, 15:209N, 15:215 | |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | B70 *15:09 | |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | B71, B70, - *15:10:01, 15:37, 15:90, 15:99, 15:133, 15:229, 15:252 | |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | B71 *15:10:02 | |
| | | | | | | | | 33 | | | | | | | | | | | | | | 45 | 47 | B75 *15:11:04 | |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 45 | 47 | B76, - *15:12, 15:14, 15:19, 15:270 |
| | | | | | | | | 33 | | | | | | | | | | | | | | | 46 | B77, - *15:13:01-15:13:02 | |
| | | | | | | | | | | 35 | | | | | | | | | | | | | 46 | B63, - *15:16:01-15:16:02, 15:67, 15:95, 15:254 | |
| 26 | | | | | | | | | | 35 | | | | | | | | | | | | | 46 | - *15:16:03 | |
| | | | | | | | | | | | | | | | | | | | | | | | 46 | B63, - *15:17:01:01-15:17:02, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:273 | |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | B71, B70, Null, - *15:18:01-15:18:02, 15:18:04-15:18:05, 15:51- 15:52, 15:72, 15:93, 15:108, 15:114, 15:119, 15:134, 15:153, 15:176, 15:197-15:198, 15:200, 15:221, 15:226N, 15:238, 15:263, 15:275 | |
| | | | | | | | | | | | | | | | | | 43 | | | | | | 47 | B71 *15:18:03 | |
| 26 | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | B62 *15:20 | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |

Negative Control



101.503-48/12 – including *Taq* pol., IFU-01
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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|-------------------|---|---|---|---|---|---|---|---|---|----|----|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *15:21, 15:44 | B75 | | | | | | | 7 | | | | | 12 | | 14 | | | 17 | | 19 | | | | | |
| *15:23, 15:115 | B70/B5/ blank | | | | | | | | 8 | | | | 12 | | 14 | | | | | 19 | | | | | |
| *15:24:01-15:24:02, 15:87, 15:157 | B62, B15, - | | | | | | | 7 | | | | | 12 | | 14 | | | | | 19 | | | | | |
| *15:25:01-15:25:03, 15:204, 15:240, 15:250, 15:271 | B62, - | | | | | | | 7 | | | | | 12 | | | | | 17 | | 19 | | | | | |
| *15:29 | B70 | | | | | | | | 8 | | | | 12 | | | | | | | 19 | | | | | |
| *15:30, 15:58, 15:63, 15:269 | B62, - | | | | | | | 7 | | | | | | | | | | | | 19 | | | | | |
| *15:31 | B75 | | | | | | | 7 | | | | | 12 | | | | | | | 19 | | | | | |
| *15:36 | - | | | w | | | | 7 | | | | | 12 | | | | | 17 | | 19 | | | | | |
| *15:42 | B15 | | | | | | | 7 | | | | | | | | | | | | 19 | | | | | |
| *15:43, 15:256 | B15, - | | | | | | | 7 | | | | | 12 | | | | | | | 19 | | | | | |
| *15:45 | B62 | | | 3 | | | | 7 | | | | | | | | | | | | 19 | | | | | |
| *15:46 | - | | | | 4 | | | 7 | 8 | | | | 12 | | | | | | | 19 | | | | | |
| *15:48, 15:150, 15:188, 15:248 | B62, - | | | | | | | 7 | | | | | | | | | | | | 19 | | | | | |
| *15:53, 15:212 | - | | | | 4 | | | | 8 | | | | 12 | | | | | | | 19 | | | | | |
| *15:54 | B72 | | | | | | | | 8 | | | | 11 12 | | | | | | | 19 | | | | | |
| *15:55 | B15 | | | 3 | | | | 7 | | | | | 12 | | | | | | | 19 | | | | | |
| *15:57 | B62 | | | | | | | 7 | | | | | 12 | | | | | | | 19 | | | | | |
| *15:62 | - | | | | | | | | 8 | | | | 11 12 | | | | | 17 | | 19 | | | | | |
| *15:64:01-15:64:02 | B71, - | | | | | | | | 8 | | | | 11 12 | | | | | | | 19 | | | | | |
| *15:66 | B62 | | | | | | | 7 | | | | | 12 | | 14 | | | | | 19 | | | | | |
| *15:68 | - | | | 3 | | | | | | | | | 11 12 | | | | | | | | | | | | |
| *15:69 | B72 | | | | | | | | 8 | | | | 11 12 | | | | | | | 19 | | 21 | | | |
| *15:73 | B62 | | | | | | | 7 | | | | | | | | | | | | 19 | | | | | |
| *15:74 | B72 | | | | | | | | 8 | | | | 12 | | | | | | | 19 | | | | | |
| *15:76 | - | | | | | | | 7 | | | | | 12 | | | | | | | 19 | | | | | |
| *15:77 | B62 | | | | | | 6 | 7 | | | | | | | | | | 17 | | 19 | | | | | |
| *15:80 | B70 | | | | | | | | 8 | | | | 12 | | 14 | | | 17 | | 19 | | | | | |
| *15:83 | B62 | | | | | | | 7 | 8 | | | | | | | | | | | 19 | | | | | |
| *15:85 | B62 | | | | | | | 7 | | | | | 12 | | | | | 17 | | 19 | | | | | |
| *15:86 | - | | | | | | | 7 | | | | | | | | | | | | 19 | | | | | |
| *15:89 | B77 | | | w | | | | 7 | | | | | 12 | | | | | 17 | | 19 | | | | | |
| *15:91, 15:131 | - | | | | | | | | 8 | | | | 11 12 13 | | | | | | | 19 | | | | | |
| *15:101 | - | | | | | | | 7 | | | | | 12 | | | | | | | | | | | | |
| *15:106 | - | | | | 4 | | | 7 | 8 | | | | 12 | | | | | 17 | | 19 | | | | | |
| *15:116 | B62 | | | | | | | 7 | | | | | 12 | | | | | | | 19 | | | | | |
| *15:124 | B71 | | | | | | | | 8 | | | | 12 | | 14 | | | | | 19 | | | | | |
| *15:137 | - | | | | | | | 7 | | | | | | | | | | | | 19 | | | | | |
| *15:138 | - | 1 | | | | | | 7 | | | | | 12 | | | | | | | 19 | | | | | |
| *15:142 | - | | 2 | | | | | 7 | | | | | 12 | | | | | | | 19 | | | | | |
| *15:143 | - | | | | | | | 7 | 8 | | | | 12 | | | | | | | 19 | | | | | |
| *15:144 | - | | | | | | | 7 | | | | | 12 | | | | | 17 | | 19 | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | ser. ⁵ | Well No. HLA-B allele ⁴ |
|----|----|----|----|----|----|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|-------|----|-------------------|--|
| | | | | | | | | 33 | | | | | | | | | | | | | | 47 | | B75 | *15:21, 15:44 |
| | | | | | | | | | | | | | | | | | | | | | | 46 | | B70/B5/ blank | *15:23, 15:115 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 45 46 | | B62, B15, - | *15:24:01-15:24:02, 15:87, 15:157 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | B62, - | *15:25:01-15:25:03, 15:204, 15:240, 15:250, 15:271 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | B70 | *15:29 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 45 47 | | B62, - | *15:30, 15:58, 15:63, 15:269 |
| | | | | | | | | 33 | | | | | | | | | | | | | | | 47 | B75 | *15:31 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 46 | | - | *15:36 |
| | | | | | | | | | 35 | | | | 38 | 40 | | | | | | | | | 47 | B15 | *15:42 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 45 46 | | B15, - | *15:43, 15:256 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 45 47 | | B62 | *15:45 |
| | | | | | | | | | | | | 37 38 | | | | | | | | | | 45 47 | | - | *15:46 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | B62, - | *15:48, 15:150, 15:188, 15:248 |
| | | | | | | | | | | | | 37 38 | | | | | | | | | | 45 47 | | - | *15:53, 15:212 |
| | | | | | | | | | | | | 38 | | | | | | | | | | 45 47 | | B72 | *15:54 |
| | | | | | | | | 33 | | | | | 38 | | | | | | | | | 47 | | B15 | *15:55 |
| | | | | | w | | | | | | | | 38 | | | | | | | | | 45 47 | | B62 | *15:57 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 47 | | - | *15:62 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 47 | | B71, - | *15:64:01-15:64:02 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 45 47 | | B62 | *15:66 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 45 47 | | - | *15:68 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 47 | | B72 | *15:69 |
| | | | | | | | | | | | | | 38 | | 41 | 43 | | | | | | 45 47 | | B62 | *15:73 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 47 | | B72 | *15:74 |
| | | | 28 | | | | | w | | | | | 38 | | | | | | | | | 45 47 | | - | *15:76 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 45 47 | | B62 | *15:77 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 47 | | B70 | *15:80 |
| | | | | | 30 | | | | | | | | 38 | | | | | | | | | 47 | | B62 | *15:83 |
| | 26 | | | | | | | | | | | | 38 | | | | | | | | | 45 47 | | B62 | *15:85 |
| | | | | | | | | | | | | | 38 | 40 | | | | | | | | 47 | | - | *15:86 |
| | | | | | | | | 33 | | | | | | | | | | | | | | 46 | | B77 | *15:89 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 47 | | - | *15:91, 15:131 |
| | | | 28 | | | | | | | | | | 38 | | | | | | | | | 45 47 | | - | *15:101 |
| | | | | | | | | | | | | 37 38 | | | | | | | | | | 47 | | - | *15:106 |
| 25 | | | | | | | | | | | | | 38 | | | | | | | | | 47 | | B62 | *15:116 |
| 25 | | | | | | | | | | | | | 38 | | | | | | | | | 47 | | B71 | *15:124 |
| | | | | | | | | | w | | | | 38 | | | | | | | | | 45 47 | | - | *15:137 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 47 | | - | *15:138 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 45 47 | | - | *15:142 |
| | | | | | | | | | | | | 37 | | | | | | | | | | 45 47 | | - | *15:143 |
| | | | | | | | | 33 | | | | | | | | | | | | | | 45 47 | | - | *15:144 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | | Well No. |

Negative Control



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 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|-------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *15:154, 15:165 | - | | | | | | | 7 | | | | | 12 | | | | | 17 | 19 | | | | | | |
| *15:161 | - | | | | | | | | 8 | | | | 12 | 13 | 14 | | | | 19 | | | | | | |
| *15:180 | - | | 2 | | | | | | | | | | 12 | | | | | | | | | | | | |
| *15:186 | - | | | | | | | | 8 | | | | 12 | 14 | | | | | 19 | 21 | | | | | |
| *15:189 | - | | | | | | 6 | 7 | | | | | 12 | 14 | | | | | 19 | | | | | | |
| *15:194 | - | | | | | | | 7 | | | | | 12 | | | | | 17 | 19 | | | | | | |
| *15:202, 15:239 | - | | | | | | | 7 | | | | | 12 | | | | | | 18 | 19 | | | | | |
| *15:222 | - | | | | | | | | | 9 | | | 12 | 14 | | | | | 19 | | | | | | |
| *15:224 | - | | | | | | | 7 | | | | | | | | | | | 19 | | | | | | |
| *15:230 | - | 1 | | | | | | 7 | | 9 | | | | 14 | | | | | 19 | | | | | | |
| *15:233 | - | | | | | | 6 | 7 | | | | | | | | | | | 19 | | | | | | |
| *15:236 | - | | | | | | | 7 | | | | | 12 | | | | | | | | | | | | |
| *15:241 | - | 1 | | | | | | 7 | | | | | 12 | | | | | | 19 | | | | | | |
| *15:243 | - | | | | | | | | 8 | 9 | | | | 14 | | | | | 19 | | | | | | |
| *15:253 | - | | | | | | | | 8 | | | 11 | | | | | | | 19 | | | | | | |
| *15:255 | - | | | | | | | | 8 | | | | 12 | | | | | | | | | | | | |
| *15:259 | - | | | | | | | 7 | 8 | | | 11 | 12 | | | | | | 19 | | | | | | |
| *15:268 | - | | | | | | | 7 | | 9 | | | 12 | 14 | | | | | 19 | | | | | | |
| *15:277 | - | | | | | | | 7 | | 9 | | | 12 | | | | | | 19 | | | | | | |
| *18:01:01:01-18:03, 18:05-18:08, 18:10-18:11, 18:13-18:15, 18:17N-18:18, 18:20-18:21, 18:23N-18:25, 18:27-18:28, 18:30-18:36, 18:38-18:40, 18:42-18:43, 18:45-18:47, 18:50-18:53, 18:55, 18:57-18:60, 18:62-18:65, 18:68, 18:70-18:71, 18:73-18:78, 18:80-18:91 | B18, B18/blank, Null, - | | | | | | | | | | | | 12 | | 15 | | | 18 | | | | | | | |
| *18:04 | B18 | | | | | | | | | | | | 12 | | 15 | | | 18 | | | | | | | |
| *18:09 | B18 | | | | | | | | | | | | 12 | | 15 | | | | | | | | | | |
| *18:12 | B18 | | | | | | | | | | | | 12 | | 15 | | | 18 | | | | | | | |
| *18:19 | B18 | | | | | | | | | | | | 12 | | 15 | | | 18 | | | | | | | |
| *18:22, 18:69 | B18, - | | | | | | | | | | | | 12 | | 15 | | | 17 | 18 | | | | | | |
| *18:26, 18:41, 18:61 | B18, - | | | | | | | | | | | | | | 15 | | | 18 | | | | | | | |
| *18:29, 18:72, 35:32:01-35:32:02, 35:37, 35:53N, 35:64:01-35:64:02, 35:66, 35:68:01-35:68:02, 35:99, 35:118-35:119, 35:174 ⁹ | B35, Null, - | | | | | | | | | | | | 12 | | | | | | 18 | | | | | | |
| *18:37 | - | | | | | | | | | | | 11 | 12 | | 15 | | | | | | | | | | |
| *18:44:01-18:44:02 | - | | | | 4 | | | | | | | | 12 | | 15 | | | 18 | | | | | | | |
| *18:48 | - | | | | | | | | | | | | 12 | | 15 | | | | | | | | | | |
| *18:49, 18:79 | - | | | | | | | | | | | | 12 | | 15 | | | | | | | | | | |
| *18:54 | - | | | | | | | | | | | | 12 | 13 | 15 | | | | | 20 | | | | | |
| *18:56 | - | | | | | | | | | | | | 12 | 13 | 15 | | | | 18 | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|---|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | | |
| | | | | | | | | | | | | | 38 | | | | | | | | 45 | 47 | | - | *15:154, 15:165 | |
| | | | | | | | | | | | | | | | | | | | | | | 47 | | - | *15:161 | |
| | | | | | | | | | | | | | | | | | | | | | 45 | 47 | | - | *15:180 | |
| | | | | | | | | | | | | | | | | | | | | | | 47 | | - | *15:186 | |
| | | | | | | | | 33 | | | | | | | | | | | | | 45 | 47 | | - | *15:189 | |
| 26 | | | | | | | | 33 | | | | | | | | | | | | | | 47 | | - | *15:194 | |
| | | | | | | | | | | | | | 38 | | | | | | | | 45 | 47 | | - | *15:202, 15:239 | |
| | | | | | | | | | | | | | | | | | | | | | | 46 | | - | *15:222 | |
| | | | | | | | | | | | | | 38 | 40 | | | 43 | | | | | 47 | | - | *15:224 | |
| | | | | | | | | | | | | | | | | | | | | | | 46 | | - | *15:230 | |
| | | | | | | | | | | | | | 38 | | | | | | | | 45 | 47 | | - | *15:233 | |
| | | | | | | | | | | | | | 38 | | | | | | | | 45 | 47 | | - | *15:236 | |
| | | | | | | | | | | | | | 38 | | | | | | | | 45 | 47 | | - | *15:241 | |
| | | | | | | | | | | | | | 38 | | | | | | | | | 47 | | - | *15:243 | |
| | | | | | | | | | | | | | 38 | | | | | | | | | 47 | | - | *15:253 | |
| | | | 28 | | | | | | | | | | 38 | | | | | | | | | 47 | | - | *15:255 | |
| | | | | | | | | | | | | | 38 | | | | | | | | 45 | 47 | | - | *15:259 | |
| | | | | | | | | | | | | | | | | | | | | | | 46 | | - | *15:268 | |
| | | | | | | | | | | | | | 38 | | | | | | | | 45 | | | - | *15:277 | |
| | | | | | | | | | | | | | | | | | | | | | | | | Negative Control | *18:01:01:01-18:03, 18:05 18:08, 18:10-18:11, 18:13 18:15, 18:17N-18:18, 18:20-18:21, 18:23N- B18, 18:25, 18:27-18:28, 18:30 B18/blank, Null, - 18:36, 18:38-18:40, 18:42 18:43, 18:45-18:47, 18:50 18:53, 18:55, 18:57- 18:60, 18:62-18:65, 18:68, 18:70-18:71, 18:73 18:78, 18:80-18:91 | |
| | | | | | | | | | | | | | 40 | | | | | | 44 | | | 47 | | | B18 | *18:04 |
| | | | | | | | | | | | | | | | | | | | 44 | | 46 | | | | B18 | *18:09 |
| | | | | | | | | | | | | | 38 | | | | | | | | | 47 | | | B18 | *18:12 |
| | | | | | | | | | | | | | | | | | | | 44 | 45 | | 47 | | | B18 | *18:19 |
| | | | | | | | 31 | | | | | | | | | | | | 44 | | | 47 | | | B18, - | *18:22, 18:69 |
| | | | | | | | | | | | | | | | | | | | 44 | | | 47 | | | B18, - | *18:26, 18:41, 18:61 |
| | | | | | | | | | | | | | | | | | | | 44 | | | 47 | | | B35, Null, - | *18:29, 18:72, 35:32:01- 35:32:02, 35:37, 35:53N, 35:64:01-35:64:02, 35:66, 35:68:01-35:68:02, 35:99, 35:118-35:119, 35:174 ⁹ |
| | | | | | | | | | | | | | | | | | | | | | | 47 | | | - | *18:37 |
| | | | | | | | | | | | | | | | | | | | 44 | | | 47 | | | - | *18:44:01-18:44:02 |
| 26 | | | | | | | | | | | | | 37 | | | | | | | | | 47 | | - | *18:48 | |
| | | | | | | | | | | | | | | | | | | | 44 | | | 47 | | - | *18:49, 18:79 | |
| | | | | | | | | | | | | | | | | | | | 44 | | 46 | | | - | *18:54 | |
| | | | | | | | | | | | | | | | | | | | 44 | | | 47 | | - | *18:56 | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |



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 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|---------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *18:66 | - | | | | | | | | | | | | 12 | | | 15 | | | | | | | | | |
| *18:67 | - | | | | | | | | | | | | 12 | | | 15 | | | | | | | | | |
| *27:01 | B27 | | | | | 5 | | | | | | | | | | | 16 | | | | | | | | |
| *27:02:01-27:02:02, 27:53, 27:57, 27:65N, 27:83, 27:95, 27:102 | B27, Null, - | | | | | 5 | | | | | | | | | | | 16 | | | | | | | | |
| *27:03-27:05:15, 27:05:17- 27:05:19, 27:05:21-27:06, 27:09-27:10, 27:13, 27:17, 27:20, 27:27, 27:31, 27:35-27:37, 27:45- 27:46, 27:48-27:51, 27:54- 27:56, 27:58, 27:60- 27:61, 27:64N, 27:66N, 27:68-27:69, 27:72-27:74, 27:78-27:80, 27:82, 27:84- 27:88, 27:90:01-27:91, 27:93-27:94N, 27:96- 27:101, 27:103-27:106 | B27, Null, - | | | | | 5 | | | | | | | | | | | 16 | | | | | | | | |
| *27:05:16, 27:05:20, 27:07:01-27:07:03, 27:11, 27:15, 27:21, 27:28, 27:32, 27:34, 27:38, 27:43, 27:47, 27:63, 27:70-27:71, 27:76 | B27, - | | | | | | | | | | | | | | | | 16 | | | | | | | | |
| *27:08, 27:26, 27:40, 27:42, 27:44, 27:89 | B2708/B 27/B7, - | | | | | 5 | | | | | | | | | | | 16 | | | | | | | | |
| *27:12 | - | | | | | 5 | | | | | | | | | | | 16 | | | | | | | | |
| *27:14, 27:81 | B27, - | | | | | | | | | | | | | | | | 16 | | | | | | | 24 | |
| *27:16, 27:39, 27:59N | B27, Null, - | | | | | 5 | | | | | | | | | | | 16 | | | | | | | | |
| *27:18 | - | | | | | 5 | | | | | | 11 | | | | | 16 | | | | | | | | |
| *27:19 | B27 | | | | | | | | | | | | | | | | 16 | 17 | | | | | | | |
| *27:23, 27:92 | - | | | | | 5 | | | | | | | | | | | 16 | | | | | | | | |
| *27:24 | B27 | | | | | | | | | | | | | | | | 16 | | | | | | | | |
| *27:25 | B27 | | | | | | | | | | | | | | | | 16 | | | | | | | | |
| *27:29 | B27 | | | | | 5 | | | | | | 11 | | | | | 16 | | | | | | | | |
| *27:30 | B27 | | | | | | | | | | | | | | | | 16 | 17 | | | | | | | |
| *27:33 | - | | | | | | | | | | | | | | | | 16 | | | | | | | | |
| *27:41 | - | | | | | 5 | | | | | | | 12 | | | | 16 | | | | | | | | |
| *27:52, 27:67 | - | | | | | 5 | | | | | | | | | | | | | | | | | | | |
| *27:62 | - | | | | | | | | | | | | | | | | 16 | | | | | | | | |
| *27:75 | - | | | | | 5 | | | | | | | | | | | | | | | | | | | |
| *27:77 | - | | | | | 5 | | | | | | | | | | | 16 | | | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|--|---|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | | |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | - | *18:66 | |
| | | | | | | | | | | | 36 | | | | | | | | | 44 | | | 46 | - | *18:67 | |
| | | | 28 | | | | w | | | | | | 38 | | | | | | | | | | 46 | B27 | *27:01 | |
| | | | 28 | | | | 32 | | | | 36 | | 38 | | | | | | | | | | 46 | B27, Null, - | *27:02:01-27:02:02, 27:53, 27:57, 27:65N, 27:83, 27:95, 27:102 | |
| | | | 28 | | | | 32 | | | | | | 38 | | | | | | | | | | 46 | B27, Null, - | *27:03-27:05:15, 27:05:17 27:05:19, 27:05:21-27:06, 27:09-27:10, 27:13, 27:17, 27:20, 27:27, 27:31, 27:35-27:37, 27:45 27:46, 27:48-27:51, 27:54 27:56, 27:58, 27:60- 27:61, 27:64N, 27:66N, 27:68-27:69, 27:72-27:74, 27:78-27:80, 27:82, 27:84 27:88, 27:90:01-27:91, 27:93-27:94N, 27:96- 27:101, 27:103-27:106 | |
| | | | 28 | | | | 32 | | | | | | 38 | | | | | | | | | | 46 | Negative Control | B27, - | *27:05:16, 27:05:20, 27:07:01-27:07:03, 27:11, 27:15, 27:21, 27:28, 27:32, 27:34, 27:38, 27:43, 27:47, 27:63, 27:70-27:71, 27:76 |
| | | | 28 | | | | 32 | | | | | | 38 | | | | | | | | | | 47 | | B2708/B 27/B7, - | *27:08, 27:26, 27:40, 27:42, 27:44, 27:89 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | - | *27:12 | |
| | | | 28 | | | | 32 | | | | | | 38 | | | | | | | | | | 46 | B27, - | *27:14, 27:81 | |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 46 | B27, Null, - | *27:16, 27:39, 27:59N | |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | - | *27:18 | |
| | | | 28 | | | | 32 | | | | | | 38 | | | | | | | | | | 46 | B27 | *27:19 | |
| | | | | | | | | | | | | | | | | | | | | | | | 46 | - | *27:23, 27:92 | |
| | | | 28 | | | | 32 | 33 | | | | | 38 | | | | | | | | | | 46 | B27 | *27:24 | |
| | | | 28 | | | | 32 | | | | | | 38 | | | | | | | | | 45 | 46 | B27 | *27:25 | |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 46 | B27 | *27:29 | |
| | | | 28 | | | | 32 | | | | 36 | | 38 | | | | | | | | | | 46 | B27 | *27:30 | |
| | | | 28 | | | | 32 | | | | | | 38 | | | | | | | | | | 47 | - | *27:33 | |
| | | | 28 | | | | 32 | | | | | | 38 | | | | | | | | | | 46 | - | *27:41 | |
| | | | 28 | | | | 32 | | | | | | 38 | | | | | | | | | | 46 | - | *27:52, 27:67 | |
| | | | 28 | | | | 32 | | | | 36 | | 38 | | | | | | | | | | 46 | - | *27:62 | |
| | | | 28 | | | | 32 | | | | 36 | | 38 | | | | | | | | | 45 | 46 | - | *27:75 | |
| | | | | | | | | | | | 36 | | 38 | | | | | | | | | | 46 | - | *27:77 | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |

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Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *35:01:01:01-35:01:09, 35:01:11-35:01:38, 35:07- 35:08:04, 35:08:06, 35:11:01-35:11:03, 35:15, 35:20:01-35:20:02, 35:23, 35:29:01-35:29:02, 35:40N-35:42:01, 35:48, 35:50, 35:52, 35:54, 35:57, 35:61:01-35:61:02, 35:77-35:78, 35:82, 35:90- 35:94, 35:100-35:101:02, 35:103-35:105, 35:107- 35:108:02, 35:110- 35:112, 35:116, 35:120- 35:124, 35:126, 35:130N- 35:134N, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173N, 35:175-35:178, 35:180, 35:187, 35:189, 35:192, 35:194, 35:196-35:197, 35:200, 35:202, 35:206, 35:208-35:209, 35:212, 35:215-35:216N, 35:219, 35:224-35:225, 35:227- 35:228 | B35, Null, - | | | | | | | | | | | 12 | | | | | | 17 | 18 | | | | | | |
| *35:01:10 | B35 | | | | | | | | | 9 | | 12 | | | | | | 17 | 18 | | | | | | |
| *35:02:01-35:03:02, 35:03:04-35:04:01, 35:04:03, 35:06, 35:12:01- 35:12:03, 35:33-35:34, 35:36, 35:39, 35:55, 35:59, 35:65Q, 35:70, 35:74, 35:83-35:85, 35:95, 35:98, 35:106, 35:128-35:129N, 35:136, 35:149-35:150, 35:152- 35:153, 35:155-35:156, 35:160, 35:162, 35:167, 35:172, 35:179, 35:181- 35:184, 35:193, 35:195, 35:201, 35:204, 35:211, 35:214, 35:220-35:221, 35:223, 35:231 | B35, Null, - | | | | | | | | | | | | | | | | | 17 | 18 | | | | | | |
| *35:03:03, 35:56 | B35 | | | | | | | | | | | | | | | | | 17 | | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|-------------------|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | | | | | | | | | | | | | | | | | | 44 | | | 47 | | Negative Control | B35, Null, - | *35:01:01:01-35:01:09, 35:01:11-35:01:38, 35:07- 35:08:04, 35:08:06, 35:11:01-35:11:03, 35:15, 35:20:01-35:20:02, 35:23, 35:29:01-35:29:02, 35:40N-35:42:01, 35:48, 35:50, 35:52, 35:54, 35:57, 35:61:01-35:61:02, 35:77-35:78, 35:82, 35:90 35:94, 35:100-35:101:02, 35:103-35:105, 35:107- 35:108:02, 35:110- 35:112, 35:116, 35:120- 35:124, 35:126, 35:130N- 35:134N, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173N, 35:175-35:178, 35:180, 35:187, 35:189, 35:192, 35:194, 35:196-35:197, 35:200, 35:202, 35:206, 35:208-35:209, 35:212, 35:215-35:216N, 35:219, 35:224-35:225, 35:227- 35:228 |
| | | | | | | | | | | | | | | | | | | | 44 | | | 47 | | B35 | | *35:01:10 | |
| | | | | | | | | | | | | | | | | | | | 44 | | | 47 | | B35, Null, - | | *35:02:01-35:03:02, 35:03:04-35:04:01, 35:04:03, 35:06, 35:12:01 35:12:03, 35:33-35:34, 35:36, 35:39, 35:55, 35:59, 35:65Q, 35:70, 35:74, 35:83-35:85, 35:95, 35:98, 35:106, 35:128-35:129N, 35:136, 35:149-35:150, 35:152- 35:153, 35:155-35:156, 35:160, 35:162, 35:167, 35:172, 35:179, 35:181- 35:184, 35:193, 35:195, 35:201, 35:204, 35:211, 35:214, 35:220-35:221, 35:223, 35:231 | |
| | | | | | | | | | | | | | | | | | | | 44 | | | 47 | | B35 | *35:03:03, 35:56 | | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | | |

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 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *35:04:02 | B35 | | | | | | | | | 9 | | | | | | | | | 17 | 18 | | | | | |
| *35:05:01-35:05:03, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 35:232 | B35, - | | | 3 | | | | | | | | | 12 | | | | | | | 18 | | | | | |
| *35:08:05 | - | | | | | | | | | | | | 12 | | | | | | 17 | 18 | | | | | |
| *35:09:01-35:09:03, 35:18, 35:31, 35:75, 35:88, 35:127, 35:151, 35:205 | B35, - | | | | | | | | | | | | | | | | | | | 18 | | | | | |
| *35:10, 35:28, 35:69, 35:80, 35:226 | B35, - | | | | | | | | | | | | 12 | | | | | | 17 | 18 | | | | | |
| *35:13 | B35 | | | | | | | | | | | | | | | | | | 17 | 18 | | | | | |
| *35:14:01-35:14:02, 35:62 | B35 | | | | | | | | | | | | 12 | | | | | | 17 | 18 | | | | | |
| *35:16 | B35 | | | 3 | | | | | | | | | 12 | | | | | | 17 | 18 | | | | | |
| *35:17, 35:30, 35:113, 35:125 | B35, - | | | 3 | | | | | | | | | 12 | | | | | | 17 | 18 | | | | | |
| *35:19 | B35/blan k | | | | | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *35:21, 35:24:01- 35:24:02, 35:188, 35:190 | B35/B78 , - | | | | | | | | | | | | 12 | | | | | | 17 | 18 | | | | | |
| *35:22, 35:199 | B35, - | | | 3 | | | | | | | | | | | | | | | | 18 | | | | | |
| *35:25, 35:49, 35:210 | B35, - | | | | | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *35:26 | B35 | | | | | | 6 | | | | | | 12 | | | | | | 17 | | | | | | |
| *35:27, 35:203 | B35, - | | | | | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *35:35 | B35 | | | | | | | | | | | | 12 | | | | | | 17 | 18 | | 21 | | | |
| *35:38, 35:169 | B35, - | | | | | | | | | | | | | | | | | | 17 | 18 | | | | | |
| *35:42:02 | - | | | | | | | | | | | | 12 | | | | | | 17 | 18 | | | | | |
| *35:43:01, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135 | B35, - | | | | | | | | | | | | 12 | | | | | | | 18 | | | | | |
| *35:44 | - | | | | | | | | | | | | | | | | | | 18 | | | | | | |
| *35:45, 35:71 | B35 | | | | | | | | | | | | 12 | 13 | | | | | 17 | 18 | | | | | |
| *35:46 | B35 | | | | 4 | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *35:47, 35:217 | B35, - | | | | 4 | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *35:60 | B35 | | | | | | | | | | | | | | | | | | 18 | | | | | | |
| *35:63 | - | | | | 4 | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *35:76 | B35/22 | | | | | | | | | | | | 12 | | | | | | 17 | 18 | | | | | |
| *35:81, 35:96, 35:109, 35:157, 35:233 | - | | | | | | | | | | | | | | | | | | 17 | 18 | | | | | |
| *35:87 | - | | | | | | | | 8 | | | | | | | | | | 18 | | | | | | |
| *35:115 | - | | | | | | | | | | | | 12 | | | | | | 17 | 18 | | | | | |
| *35:154 | - | | | | 4 | | | | | | | | | | | | | | 17 | | | | | | |
| *35:163, 35:213 | - | | | | | | | | | | | | | | | | | | 17 | 18 | | | | | |
| *35:164 | - | | | | 3 | | | | | | | | | | | | | | 17 | 18 | | | | | |
| *35:185 | - | | | | | | | | | | | | 12 | | | | | | 18 | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|---|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | | | | | | | | | | | | | | | | | | 44 | | | 47 | B35 | *35:04:02 |
| | | | | | | | | | | | | | | | | | | | | 44 | | | 47 | B35, - | *35:05:01-35:05:03, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114, 35:232 |
| | | | | | | | | | | | | | | | 40 | | | | | | | | 47 | - | *35:08:05 |
| | | | | | | | | | | | | | | | | | | | | 44 | | | 47 | B35, - | *35:09:01-35:09:03, 35:18, 35:31, 35:75, 35:88, 35:127, 35:151, 35:205 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | B35, - | *35:10, 35:28, 35:69, 35:80, 35:226 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | B35 | *35:13 |
| | | | | | | | | | | | | | | | | | | | | 44 | 45 | | 47 | B35 | *35:14:01-35:14:02, 35:62 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | B35 | *35:16 |
| | | | | | | | | | | | | | | | | | | | | 44 | | | 47 | B35, - | *35:17, 35:30, 35:113, 35:125 |
| | | | | | | | | | | | | | 37 | | | | | | | | | | 47 | B35/blank | *35:19 |
| | | | | | | 31 | | | | | | | | | | | | | | 44 | | | 47 | B35/B78 | *35:21, 35:24:01- 35:24:02, 35:188, 35:190 |
| | | | | | | | | | | | | | | | | | | | | 44 | | | 47 | B35, - | *35:22, 35:199 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | B35, - | *35:25, 35:49, 35:210 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | B35 | *35:26 |
| | | | | | | | | | | | | | | | | | | | | 44 | | | 47 | B35, - | *35:27, 35:203 |
| | | | | | | | | | | | | | | | | | | | | 44 | | | 47 | B35 | *35:35 |
| | | | | 29 | | | | | | | | | | | | | | | | | | | 47 | B35, - | *35:38, 35:169 |
| | | | | | | | | | | | | | | | 40 | | | | | | | | 47 | - | *35:42:02 |
| | | | | | | | | | | | | | | | | | | | | 44 | 45 | | 47 | B35, - | *35:43:01, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135 |
| | | | | | | | | | | | | | | | | | | | | 44 | 45 | | 47 | - | *35:44 |
| | | | | 29 | | | | | | | | | | | | | | | | 44 | | | 47 | B35 | *35:45, 35:71 |
| 26 | | | | | | | | 33 | | | | | | | | | | | | | | | 47 | B35 | *35:46 |
| | | | | | | | | | | | | 37 | | | | | | | | | | | 47 | B35, - | *35:47, 35:217 |
| | | | | | | | | | | | | | | | 40 | | | | | 44 | | | 47 | B35 | *35:60 |
| | | | | | | | | | | | | 37 | 38 | | | | | | | | | | 47 | - | *35:63 |
| | | | 28 | | | | 32 | | | | | | | | | | | | | | | | 47 | B35/22 | *35:76 |
| | | | | | | 31 | | | | | | | | | | | | | | 44 | | | 47 | - | *35:81, 35:96, 35:109, 35:157, 35:233 |
| | | 27 | | | | | | | | | | | | | | | | | | 44 | | | 47 | - | *35:87 |
| | | | | 29 | | | | | | | | | | | | | | | | 44 | | | 47 | - | *35:115 |
| | | | | | | | | | | | | 37 | | | | | | | | | | | 47 | - | *35:154 |
| | | | | | | | | | | | | | | | | | | | | 44 | 45 | | 47 | - | *35:163, 35:213 |
| | | | | | | | | | | | | | | | | | | | | 44 | | | 47 | - | *35:164 |
| | | | | | | | | | | | | | | | 40 | | | | | 44 | 45 | | 47 | - | *35:185 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |

Negative Control

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
|--|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *35:186 | - | | | | | | | | | | | | 12 | | | | | 17 | 18 | | | | | | | |
| *35:191 | - | | | | | | | | | | | | 12 | | | | | 17 | 18 | | | | | | | |
| *35:198 | - | | | | | | | | | | | | | | | | | 17 | | | | | | | | |
| *35:207 | - | | | | 4 | | | | | | | | 12 | | | | | 17 | | | | | | | | |
| *35:218 | - | 2 | | | | | | | | | | | 12 | | | | | 17 | 18 | | | | | | | |
| *35:222 | - | | | | | | | | | | | | 12 | | | | | 17 | 18 | | | | | | | |
| *35:229 | - | | | | | | | | | | | | 12 | | | | | 17 | 18 | | | | | | | |
| *37:01:01-37:01:07, 37:01:09, 37:03N, 37:06, 37:13, 37:15-37:21, 37:23- 37:27, 37:30N-37:33N, 37:36 | B37, Null, - | | | | | | | | | | | | | 13 | | | | 17 | | 20 | | | | | | |
| *37:01:08, 37:09 | B37, - | | | | | | | | | | | | | 13 | | | | | | 20 | | | | | | |
| *37:02 | B37/B27 | | | | | 5 | | | | | | | | 13 | | | | | | 20 | | | | | | |
| *37:04:01-37:04:02 | B37, - | | | | | | | | | | | | | 13 | | | | 17 | | 20 | | | | | | |
| *37:05 | Blank | | | | | | | | | | | | | 13 | | | | 17 | | 20 | | | | | | |
| *37:07 | - | 1 | | | | | | | | | | | | 13 | | | | | | 20 | | | | | | |
| *37:08 | B37 | | | | | | | | | | | | | 13 | | | | 17 | | 20 | | | | | | |
| *37:10, 37:22, 37:29 | B37, - | | | | | | | | | | | | | | | | | 17 | | 20 | | | | | | |
| *37:11, 37:37 | - | | | | | | | | | | | | | | | | | 17 | 18 | | 20 | | | | | |
| *37:12 | B37 | | | | | | | | 8 | | | | | 13 | | | | | | 20 | | | | | | |
| *37:14 | - | | | | | | | | | | | | | | | | | 17 | | 20 | | | | | | |
| *37:28 | - | | | | | | | | | | | 11 | | 13 | | | | 17 | | 20 | | | | | | |
| *37:34 | - | | | | | | | | | | | | | | | | | 17 | | 20 | | | | | | |
| *37:35 | - | | | | | | | | | | | | 12 | 13 | | | | 17 | | 20 | | | | | | |
| *38:01:01-38:02:02, 38:02:04-38:02:05, 38:08- 38:09, 38:11-38:16, 38:18- 38:19, 38:21, 38:23- 38:24, 38:27-38:29, 38:31- 38:32, 38:34N, 38:38- 38:43 | B38, Null, - | | | | | 5 | | | | | | | | | | | | | | | 21 | 22 | 23 | | | |
| *38:02:03 | - | | | | | | | | | | | | | | | | | | | | 21 | | 23 | | | |
| *38:03 | B38 | | | | | 5 | | | | | | 11 | | | | | | | | 21 | 22 | | | | | |
| *38:04, 38:25 | B38, - | | | | | | | | | | | | | | | | | | | | 21 | | 23 | | | |
| *38:05, 38:33 | B38, - | | | | | | 6 | | | | | | | | | | | | | | 21 | 22 | 23 | | | |
| *38:06 | B38 | | | | | | | | | | | | | | | | | | | | 21 | | | | | |
| *38:07 | B38 | | | | | 5 | | | | | | | | | | | | | | | 21 | | | | | |
| *38:10, 38:36-38:37 | B38, - | | | | | 5 | | | | | | | | | | | | | | | | | 22 | 23 | | |
| *38:17 | - | | | | | 5 | | | | | | | | 13 | | | | | | 20 | 21 | 22 | 23 | | | |
| *38:20 | - | | | | | 5 | | | | | | | | | | | | 17 | | | 21 | 22 | 23 | | | |
| *38:22 | - | | | | | 5 | | | | | | | | | | | 16 | | | | | 22 | 23 | | | |
| *38:26 | - | | | | | 5 | | | | | | | | | | | | | | | 21 | 22 | | | | |
| *38:30 | - | | | | | 5 | | | 8 | | | | | | | | | | | | | | 22 | 23 | | |
| *38:35 | - | | | | | 5 | | | | | | | | | | | | | | | 21 | | 23 | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|----------|-------------------|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ |
| | | | 28 | | | | 32 | | | | | | | | | | | | | | | | 47 | | - | *35:186 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | | - | *35:191 |
| | | | | | | | | | | | | | | | | | | | | | | | 47 | | - | *35:198 |
| | 26 | | | | | | | | | | | 38 | | | | | | | | | | | 47 | | - | *35:207 |
| | | | | | | | | | | | | | | | | | | | | 44 | | | 47 | | - | *35:218 |
| | | | | | | | | | | | | | | | | | | | | 44 | | | | | - | *35:222 |
| | | | 28 | | | | 32 | | | | | | | | | | | | | | | | 47 | | - | *35:229 |
| | | | | 29 | | | | | | | | 38 | | | | | | | | | | | 46 | | B37, Null, - | *37:01:01-37:01:07, 37:01:09, 37:03N, 37:06, 37:13, 37:15-37:21, 37:23 37:27, 37:30N-37:33N, 37:36 |
| | | | | | | | | | | | | 38 | | | | | | | | | | | 46 | | B37, - | *37:01:08, 37:09 |
| | | | | | | | | | | | | 38 | | | | | | | | | | | 46 | | B37/B27 | *37:02 |
| | | | 29 | 31 | | | | | | | | 38 | | | | | | | | | | | 46 | | B37, - | *37:04:01-37:04:02 |
| | | | 29 | | | | | | | | | 38 | | | | | | | | | | | 47 | | Blank | *37:05 |
| | | | | | | | | | | | | 38 | | | | | | | | | | | 46 | | - | *37:07 |
| | | | 29 | | | | | | | | | | | | | | | | | 44 | | | 46 | | B37 | *37:08 |
| | | | 29 | | | | | | | | | 38 | | | | | | | | | | | 46 | | B37, - | *37:10, 37:22, 37:29 |
| | | | 29 | | | | | | | | | 38 | | | | | | | | | | | 47 | | - | *37:11, 37:37 |
| | | | 29 | | | | | | | | | 38 | | | | | | | | | | | 46 | | B37 | *37:12 |
| | | | 29 | | | | | | | | | 38 | | | | | | | | | | | 46 w | | - | *37:14 |
| | | | 29 | | | | | | | | | 38 | | | | | | | | | | | 46 | | - | *37:28 |
| | | | 29 | | | | | | | | 36 | 38 | | | | | | | | | | | 46 | | - | *37:34 |
| | | | 29 | | | | | | | | | 38 | | | | | | | | | | | 46 | | - | *37:35 |
| | | | | | | | | | | | | | | | | | | | | | | | 46 | | B38, Null, - | *38:01:01-38:02:02, 38:02:04-38:02:05, 38:08-38:09, 38:11-38:16, 38:18 38:19, 38:21, 38:23-38:24, 38:27-38:29, 38:31 38:32, 38:34N, 38:38-38:43 |
| | | | | | | | | | | | | | | | | | | | | | | | 46 | | - | *38:02:03 |
| | | | | | | | | | | | | 38 | | | | | | | | | | | 46 | | B38 | *38:03 |
| | | | | | | | | | | | | 38 | | | | | | | | | | | 46 | | B38, - | *38:04, 38:25 |
| | | | | | | | | | | | | | | | | | | | | | | | 46 | | B38, - | *38:05, 38:33 |
| | | | | | | | | | | | | | | | | | | | | 44 | | | 46 | | B38 | *38:06 |
| | | | | | | | | | | | | | | | | | | | | 44 | | | 46 | | B38 | *38:07 |
| | | | | | | | | | | | | | | | | | | | | | | | 46 | | B38, - | *38:10, 38:36-38:37 |
| | | | | | | | | | | | | | | | | | | | | | | | 46 | | - | *38:17 |
| | | | | | | | | | | | | | | | | | | | | | | | 46 | | - | *38:20 |
| | | | | | | | | | | | | | | | | | | | | | | | 46 | | - | *38:22 |
| | | | 28 | | | | | | | | | | | | | | | | | | | | 46 | | - | *38:26 |
| | | | | | | | | | | | | | | | | | | | | | | | 46 | | - | *38:30 |
| | | | | | | | | | | | | | | | | | | | | | | | 46 | | - | *38:35 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | | Well No. | |

Negative Control



101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
|--|---------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | | |
| *39:01:01:01-39:01:01:03, 39:01:03-39:01:08, 39:01:10-39:01:14, 39:01:16, 39:03, 39:05:01- 39:06:02, 39:09, 39:11, 39:14-39:15, 39:24:01, 39:26-39:29, 39:31, 39:35, 39:37-39:38Q, 39:40:01N-39:41, 39:44, 39:46, 39:48, 39:51- 39:57, 39:59-39:62, 39:64- 39:68, 39:70-39:71, 39:73, 39:75, 39:77, 39:79-39:81 | B3901/B 39, Low B39, Null, - | | | | | 5 | | | | | | | | | | | | | | | | 21 | | 23 | 24 | |
| *39:01:09, 39:06:03, 39:12, 39:45, 39:72, 39:76, 39:78 | B3901/B 39, - | | | | | | | | | | | | | | | | | | | | | 21 | | 23 | 24 | |
| *39:01:15 | - | | | | | 5 | | | | | | | | | | | | | | | | 21 | | 23 | 24 | |
| *39:02:01, 39:08 | B3902/B 39 | | | | | 5 | | | | | | 11 | | | | | | | | | | 21 | | | 24 | |
| *39:02:02, 39:13:01- 39:13:02, 39:23, 39:49 | B3902/B 39, - | | | | | | | | | | | 11 | | | | | | | | | | 21 | | | 24 | |
| *39:04 | B39 | | | | | | 6 | | | | | | | | | | | | | | | 21 | | 23 | 24 | |
| *39:07 | B16 | | | | | 5 | | | | | | | 12 | | | | | | | | | 21 | | 23 | 24 | |
| *39:10:01-39:10:02, 39:16, 39:20, 39:83 | B39, - | | | | | | | | | | | | | | | | | | | | | 21 | | | 24 | |
| *39:17 | B39 | | | | | | | | | | | | | | | | | | | | | 21 | | | 24 | |
| *39:18 | B39 | | | | | 5 | | | | | | | | | | | | | | | | 21 | | 23 | 24 | |
| *39:19:01 | B39 | | | | | | | | | | | | | | | | | | 18 | | | 21 | | 23 | 24 | |
| *39:19:02 | B39 | | | | | 5 | | | | | | | | | | | | | 18 | | | 21 | | 23 | 24 | |
| *39:22 | B39 | | | | | 5 | | | | | | | | | | | | | | | | 21 | | 23 | 24 | |
| *39:24:02 | - | | | | | 5 | | | | | | | | | | | | | | | | 21 | | 23 | | |
| *39:36 | - | | | | | 5 | | | | | | | | | | | | | | | | | | 23 | 24 | |
| *39:39:01 | B39 | | | | | 5 | | | | | | 11 | | | | | | | | | | 21 | | | 24 | |
| *39:39:02 | - | | | | | | | | | | | 11 | | | | | | | | | | 21 | | | 24 | |
| *39:42 | B39 | | | | | 5 | | | | | | | | | | | | | 17 | | | 21 | | 23 | 24 | |
| *39:43 | - | | | | | 5 | | | | | | | 12 | | | | | | | | | | | 23 | 24 | |
| *39:58 | - | | | | | 5 | | | | | | | | | | | | | | | | 21 | | | 24 | |
| *39:63 | - | | | | | | | | | | | | | | | | | | | | | 21 | | | 24 | |
| *39:69 | - | | | | | 5 | | | | | | | | | | | | | | | | 21 | | 23 | 24 | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |

101.503-48/12 – including *Taq* pol., IFU-01
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| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ |
| | | | | | | | | | | | | | | | | | | | | | | | B3901/B39, Low B39, Null, - | *39:01:01:01-39:01:01:03, 39:01:03-39:01:08, 39:01:10-39:01:14, 39:01:16, 39:03, 39:05:01 39:06:02, 39:09, 39:11, 39:14-39:15, 39:24:01, 39:26-39:29, 39:31, 39:35, 39:37-39:38Q, 39:40:01N-39:41, 39:44, 39:46, 39:48, 39:51- 39:57, 39:59-39:62, 39:64 39:68, 39:70-39:71, 39:73, 39:75, 39:77, 39:79-39:81 |
| | | | | | | | | | | | | | | | | | | | | | | | B3901/B39, - | *39:01:09, 39:06:03, 39:12, 39:45, 39:72, 39:76, 39:78 |
| | | | | | | | | | | | | | | | | | | | | | | | - | *39:01:15 |
| | | | | | | | | | | | | | | | | | | | | | | | B3902/B39 | *39:02:01, 39:08 |
| | | | | | | | | | | | | | | | | | | | | | | | B3902/B39, - | *39:02:02, 39:13:01- 39:13:02, 39:23, 39:49 |
| | | | | | | | | | | | | | | | | | | | | | | | B39 | *39:04 |
| | | | | | | | | | | | | | | | | | | | | | | | B16 | *39:07 |
| | | | | | | | | | | | | | | | | | | | | | | | B39, - | *39:10:01-39:10:02, 39:16, 39:20, 39:83 |
| | | | | | | | | | | | | | | | | | | | | | | | B39 | *39:17 |
| | | | | | | | | | | | | | | | | | | | | | | | B39 | *39:18 |
| | | | | | | | | | | | | | | | | | | | | | | | B39 | *39:19:01 |
| | | | | | | | | | | | | | | | | | | | | | | | B39 | *39:19:02 |
| | | | | | | | | | | | | | | | | | | | | | | | B39 | *39:22 |
| | | | | | | | | | | | | | | | | | | | | | | | - | *39:24:02 |
| | | | | | | | | | | | | | | | | | | | | | | | - | *39:36 |
| | | | | | | | | | | | | | | | | | | | | | | | B39 | *39:39:01 |
| | | | | | | | | | | | | | | | | | | | | | | | - | *39:39:02 |
| | | | | | | | | | | | | | | | | | | | | | | | B39 | *39:42 |
| | | | | | | | | | | | | | | | | | | | | | | | - | *39:43 |
| | | | | | | | | | | | | | | | | | | | | | | | - | *39:58 |
| | | | | | | | | | | | | | | | | | | | | | | | - | *39:63 |
| | | | | | | | | | | | | | | | | | | | | | | | - | *39:69 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:01:01-40:01:06, 40:01:08-40:01:10, 40:01:12-40:01:17, 40:01:19-40:01:29, 40:07, 40:51, 40:66, 40:73, 40:79, 40:124:01, 40:139- 40:140, 40:146-40:147, 40:150, 40:152-40:153, 40:155N, 40:172, 40:186 | B60, Null, - | | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *40:01:07, 40:01:18, 40:72:01, 40:77 | B60, - | | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *40:01:11 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *40:02:01-40:02:17, 40:04, 40:06:05, 40:39, 40:89, 40:94, 40:97, 40:122, 40:142N- 40:144N, 40:214, 40:229 | B61, B61/B41 , Null, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:03, 40:20 | B61 | | | | | | | | | | | | 12 | | | | | | | | | | | | |
| *40:05 | B4005/B 50 | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| *40:06:01:01-40:06:04, 40:06:06-40:06:07, 40:70 | B61, - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *40:08 | B61/blan k | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:09, 40:11:01- 40:11:02, 40:18, 40:24, 40:27:01-40:27:02, 40:29, 40:35, 40:37, 40:50, 40:56-40:57, 40:64, 40:78, 40:82, 40:85, 40:90-40:91, 40:99, 40:104, 40:107, 40:111, 40:115, 40:119-40:120, 40:133Q, 40:145, 40:169, 40:173, 40:176, 40:180- 40:181, 40:189, 40:200, 40:202-40:203, 40:205- 40:206, 40:211, 40:220, 40:224-40:226, 40:246 | B61, - | | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:10:01 | B60 | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *40:10:02, 40:135 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *40:12 | B60/B48 | | | | | | | | 8 | | | 11 | | | | | | | | 19 | | | | | |
| *40:13 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:14:01-40:14:03, 40:121, 40:129, 40:164, 40:192, 40:197, 40:219, 40:233, 40:237 | B60, - | | | | 4 | | | | | | | | | | | | | | | | | | | | ? |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| 25 | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | | B60, Null, - *40:01:01-40:01:06, 40:01:08-40:01:10, 40:01:12-40:01:17, 40:01:19-40:01:29, 40:07, 40:51, 40:66, 40:73, 40:79, 40:124:01, 40:139- 40:140, 40:146-40:147, 40:150, 40:152-40:153, 40:155N, 40:172, 40:186 |
| | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | | B60, - *40:01:07, 40:01:18, 40:72:01, 40:77 |
| 25 | | | | | | | | | | | | 37 | 38 | 40 | | | | | | | | 47 | | | - *40:01:11 |
| 26 | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | | B61, B61/B41 , Null, - *40:02:01-40:02:17, 40:04, 40:06:05, 40:39, 40:89, 40:94, 40:97, 40:122, 40:142N- 40:144N, 40:214, 40:229 |
| 26 | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | | B61 *40:03, 40:20 |
| 26 | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | | B4005/B 50 *40:05 |
| 26 | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | | B61, - *40:06:01:01-40:06:04, 40:06:06-40:06:07, 40:70 |
| 26 | | | | | | | | | | | | 37 | | | | | | | | | | 47 | | | B61/blan k *40:08 |
| ? | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | | B61, - *40:09, 40:11:01- 40:11:02, 40:18, 40:24, 40:27:01-40:27:02, 40:29, 40:35, 40:37, 40:50, 40:56-40:57, 40:64, 40:78, 40:82, 40:85, 40:90-40:91, 40:99, 40:104, 40:107, 40:111, 40:115, 40:119-40:120, 40:133Q, 40:145, 40:169, 40:173, 40:176, 40:180- 40:181, 40:189, 40:200, 40:202-40:203, 40:205- 40:206, 40:211, 40:220, 40:224-40:226, 40:246 |
| 25 | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | | B60 *40:10:01 |
| 25 | ? | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | | - *40:10:02, 40:135 |
| 25 | | | | | | | | | | | | | 38 | | | | | | | | | 47 | | | B60/B48 *40:12 |
| 26 | | | | | | | | 34 | 36 | | | 38 | | | | | | | | | | 46 | | | - *40:13 |
| ? | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | | B60, - *40:14:01-40:14:03, 40:121, 40:129, 40:164, 40:192, 40:197, 40:219, 40:233, 40:237 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:15, 40:32 | B40, - | 1 | | | 4 | | | | | | | | | | | | | | | | | | | | ? |
| *40:16 | B61 | 1 | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *40:19 | B61 | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:21, 40:137 | B40/B15 , - | | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:22N, 40:30, 40:33- 40:34, 40:36, 40:42- 40:43, 40:49, 40:54- 40:55, 40:61-40:63, 40:65, 40:67, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:108, 40:112-40:114, 40:116, 40:118N, 40:123, 40:124:02-40:126, 40:128, 40:130, 40:134, 40:141, 40:151, 40:154, 40:156, 40:160:01- 40:160:02, 40:163, 40:168, 40:171, 40:175, 40:179, 40:182, 40:187, 40:191, 40:193-40:196, 40:199, 40:204, 40:207, 40:212-40:213, 40:216N- 40:218, 40:221, 40:223, 40:227-40:228, 40:234- 40:236, 40:238-40:240, 40:245 | B60, Null, - | | | | 4 | | | | | | | | | | | | | | | | | | | | ? |
| *40:23 | B40 | 1 | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *40:25, 40:69, 40:106 | B40, B60, - | | | | 4 | | | | | | | | | | | | | | | | | | | | ? |
| *40:26 | B21 | | | | | | | | | 9 | | | | | | | | | | | | | | | ? |
| *40:28 | - | | | | | | | | | 9 | | | | | | | | 17 | | | | | | | ? |
| *40:31, 40:45, 40:80 | B60, - | | | | 4 | | | | | | | | | | | | | | | | | | | | ? |
| *40:38, 40:52, 40:222 | B60, - | | | | 4 | | | | | | | | 12 | | | | | | | | | | | | ? |
| *40:40 | B61 | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:44, 40:75, 40:86, 40:103, 40:127, 40:131, 40:162, 40:165, 40:167, 40:190, 40:230, 40:244 | B61, - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *40:46 | B60 | | | | | | | | | | | 11 | | | | | 16 | | | | | | | | ? |
| *40:47, 40:188 | B40, - | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *40:48 | B60 | | | | 4 | | | | | | | 10 | | | | | | | | | | | | | ? |
| *40:53, 40:72:02 | B61, B60 | | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *40:58 | B40 | | | | 4 | | | | | | | | | | | | | | | | | | | | ? |
| *40:59-40:60 | B40, - | | | | 4 | | | | | | | | 12 | | | | | | | | | | | | 24 |
| *40:68, 40:232 | - | | | | | | | | | | | | | | | | | | | | | | | | ? |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | | |
| | | | | | | | | | | | | 37 | 38 | | | | | | | | | | 47 | B40, - | *40:15, 40:32 | |
| | | | | | | | | | | | | 37 | 38 | | | | | | | | | | 47 | B61 | *40:16 | |
| | | | | | | | | | 34 | | 36 | | 38 | | | | | | | | | | 46 | B61 | *40:19 | |
| 25 | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | B40/B15 | *40:21, 40:137 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | B60, Null, - | *40:22N, 40:30, 40:33-40:34, 40:36, 40:42-40:43, 40:49, 40:54-40:55, 40:61-40:63, 40:65, 40:67, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:108, 40:112-40:114, 40:116, 40:118N, 40:123, 40:124:02-40:126, 40:128, 40:130, 40:134, 40:141, 40:151, 40:154, 40:156, 40:160:01-40:160:02, 40:163, 40:168, 40:171, 40:175, 40:179, 40:182, 40:187, 40:191, 40:193-40:196, 40:199, 40:204, 40:207, 40:212-40:213, 40:216N-40:218, 40:221, 40:223, 40:227-40:228, 40:234-40:236, 40:238-40:240, 40:245 |
| 25 | ? | | | | | | | | | | | 37 | 38 | | | | | | | | | | 47 | B60, Null, - | *40:22N, 40:30, 40:33-40:34, 40:36, 40:42-40:43, 40:49, 40:54-40:55, 40:61-40:63, 40:65, 40:67, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:108, 40:112-40:114, 40:116, 40:118N, 40:123, 40:124:02-40:126, 40:128, 40:130, 40:134, 40:141, 40:151, 40:154, 40:156, 40:160:01-40:160:02, 40:163, 40:168, 40:171, 40:175, 40:179, 40:182, 40:187, 40:191, 40:193-40:196, 40:199, 40:204, 40:207, 40:212-40:213, 40:216N-40:218, 40:221, 40:223, 40:227-40:228, 40:234-40:236, 40:238-40:240, 40:245 | |
| 25 | | | | | | | | | | | | 37 | 38 | | | | | | | | | | 47 | B40 | *40:23 | |
| 25 | ? | | | | | | | | | | | 37 | | | | | | | | | | | 47 | B40, B60, - | *40:25, 40:69, 40:106 | |
| | | | | | | | | | | | | 37 | 38 | | | | | | | | | | 47 | B21 | *40:26 | |
| | | | | | | 31 | | | | | | 37 | 38 | | | | | | | | | | 47 | - | *40:28 | |
| | | | | | | | | 33 | | | | 37 | 38 | | | | | | | | | | 47 | B60, - | *40:31, 40:45, 40:80 | |
| 25 | ? | | | | | | | | | | | 37 | 38 | | | | | | | | | | 47 | B60, - | *40:38, 40:52, 40:222 | |
| | | | | | | | | | | | | 37 | 38 | | | | | | | | | | 47 | B61 | *40:40 | |
| | | | | | | | | | | | | 37 | 38 | | | | | | | | | | 47 | B61, - | *40:44, 40:75, 40:86, 40:103, 40:127, 40:131, 40:162, 40:165, 40:167, 40:190, 40:230, 40:244 | |
| 25 | | | | | | | | | | | | | 38 | | | | | | | | | | 47 | B60 | *40:46 | |
| 25 | ? | | | | | | | | | | | | 38 | | | | | | | | | 46 | B40, - | *40:47, 40:188 | | |
| 25 | ? | | | | | | | | | | | 37 | 38 | | | | | 43 | | | | | 47 | B60 | *40:48 | |
| | | | | | | | | | | | | 37 | 38 | | | | | | | | | | 47 | B61, B60 | *40:53, 40:72:02 | |
| | | | | | | | | | | | | 37 | 38 | | 40 | | | | | | | | 47 | B40 | *40:58 | |
| 25 | | | | | | | | | | | | 37 | 38 | | | | | | | | | | 47 | B40, - | *40:59-40:60 | |
| | | | | | | | | | | | | 37 | | | | | | | | | | | 47 | - | *40:68, 40:232 | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |

Negative Control

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:71 | B61 | | | 3 | | | | | | | | | | | | | | | | | | | | | ? |
| *40:74, 40:149, 40:210 | B60, - | | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:76 | B60 | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *40:83, 40:177 | - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *40:93 | - | | | | | | | | | | | 11 | | | | | 16 | | | | | | | | 24 |
| *40:95 | - | | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:96 | - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *40:98 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:105 | - | | | | | | | | | | | | 12 | | | | | | | | | | | | ? |
| *40:109 | - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *40:110 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *40:117 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *40:132, 40:178 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | ? |
| *40:136 | - | 1 | | | 4 | | | | 8 | | | | | | | 14 | | | | | | | | | ? |
| *40:138 | - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *40:148, 40:161 | - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *40:157, 40:201 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *40:158 | - | 1 | | | 4 | | | | | | | | 12 | | | | | | | | | | | | ? |
| *40:159 | - | | | | | | | | | | | | 12 | | | | | | | | | | | | 24 |
| *40:166 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | ? |
| *40:170 | - | | | | | | | | | | | | | | | | | | | | | | | | ? |
| *40:174 | - | | | | 3 | | | | | | | | | | | | | | | | | | | | ? |
| *40:183, 40:198 | - | 1 | | | 4 | | | | | | | | | | | | | | | | | | | | ? |
| *40:184 | - | | | | | | | | | | | | | | | | | | | | | | 21 | | ? |
| *40:185 | - | | | | | | | | | | | | | | | | | | | 18 | | | | | ? |
| *40:208 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | ? |
| *40:209 | - | | | | | | | | | | | | | | | | | | | 18 | | | | | ? |
| *40:215 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | ? |
| *40:231 | - | 1 | | | 4 | | | | 8 | | | | | | | 14 | | | | | | | | | ? |
| *41:01, 41:06-41:07, 41:12, 41:14, 41:16- 41:17, 41:20-41:22, 41:25, 41:28 | B41, - | | | | 4 | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *41:02:01-41:03:02, 41:11, 41:13, 41:15, 41:19, 41:23, 41:27 | B41, - | | | | 4 | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *41:04, 41:10, 41:18 | B41, - | | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *41:05 | B41 | | | | 4 | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *41:08 | B41 | 1 | | | 4 | | | | 8 | | | | | | | 14 | | | | | | | | | 24 |
| *41:09, 45:02-45:03 ¹⁰ | B45, - | | | | 4 | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *41:24 | - | | | | 4 | | | | 8 | | | | 12 | | | | | | | | | | | | 24 |
| *41:26 | - | | | | 4 | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *42:01:01-42:02, 42:06, 42:10, 42:12, 42:14- 42:15, 42:17-42:18 | B42, - | | | | | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *42:04 | B42 | | | | | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *42:05:01-42:05:02 | B42 | 1 | | | | | | | 8 | | | | | | | 14 | | | | | | | | | 24 |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | ser. ⁵ | Well No. HLA-B allele ⁴ |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---|
| ? | | | | | | | | | | | | 37 | 38 | | | 41 | | 43 | | | | | 47 | B61 | *40:71 |
| 25 | ? | | | | | | | | | | | 37 | 38 | | | | | | | | | | 47 | B60, - | *40:74, 40:149, 40:210 |
| 25 | ? | | | | | | | | | | | 38 | | | | | | | | | | | | B60 | *40:76 |
| | | | | | | | | | | | | 37 | 38 | | | | | | | | | | 47 | - | *40:83, 40:177 |
| | | | | | | | | | | | | 38 | | | | | | | | | | | 47 | - | *40:93 |
| ? | | | | | | | | | | 35 | | 37 | 38 | | | | | | | | | | 47 | - | *40:95 |
| ? | | | | | | | | | | | | 38 | | | | | | | | | | 46 | | - | *40:96 |
| ? | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *40:98 |
| ? | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *40:105 |
| ? | | | | | | | | | 34 | | 36 | 38 | | | | | | | | | | 46 | | - | *40:109 |
| ? | | | | | | | | | | | | 38 | | | | | | | | | | 46 | | - | *40:110 |
| 25 | ? | | | | | | | | 34 | | 36 | 38 | | | | | | | | | | 46 | | - | *40:117 |
| 25 | ? | | | 29 | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *40:132, 40:178 |
| | ? | 27 | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *40:136 |
| 25 | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *40:138 |
| ? | | | | | | | | | | 35 | | 37 | 38 | | | | | | | | | 47 | | - | *40:148, 40:161 |
| ? | | | | | | | | | | | | 38 | | | | | | | | | | 46 | | - | *40:157, 40:201 |
| ? | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *40:158 |
| ? | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *40:159 |
| 25 | ? | | 28 | | | | | | | | | 37 | | | | | | | | | | 47 | | - | *40:166 |
| 25 | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *40:170 |
| | ? | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *40:174 |
| 25 | ? | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *40:183, 40:198 |
| | ? | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *40:184 |
| 25 | | | | | | | | | | | | 38 | | | | | | | | | | 47 | | - | *40:185 |
| 25 | ? | | | | | | | | | | | 38 | | | | | | | | | | 47 | | - | *40:208 |
| | | | | | | | | | | | | 38 | | | | | | | | | | 47 | | - | *40:209 |
| 25 | | | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *40:215 |
| 25 | ? | 27 | | 29 | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *40:231 |
| | | 27 | | | 30 | | | | | | | 37 | 38 | | | | | | | | | 47 | | B41, - | *41:01, 41:06-41:07, 41:12, 41:14, 41:16- 41:17, 41:20-41:22, 41:25, 41:28 |
| | | 27 | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | B41, - | *41:02:01-41:03:02, 41:11, 41:13, 41:15, 41:19, 41:23, 41:27 |
| | | 27 | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | B41, - | *41:04, 41:10, 41:18 |
| | | 27 | | | 30 | | | | | | | ? | 38 | | | | | | | | | 47 | | B41 | *41:05 |
| | | 27 | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | B41 | *41:08 |
| | | | | | 30 | | | | | | | 37 | 38 | | | | | | | | | 47 | | B45, - | *41:09, 45:02-45:03 ¹⁰ |
| | | 27 | | | | | | | | | | 37 | 38 | | | | | | | | | 47 | | - | *41:24 |
| | | 27 | | | 30 | | | | | | | 38 | | | | | | | | | | 47 | | - | *41:26 |
| | | 27 | 28 | | | | | | | | | | | | | | | | | | | 47 | | B42, - | *42:01:01-42:02, 42:06, 42:10, 42:12, 42:14- 42:15, 42:17-42:18 |
| | | 27 | 28 | | 30 | | | | | | | | | | | | | | | | | 47 | | B42 | *42:04 |
| | | 27 | 28 | | | | | | | | | | | | | | | | | | | 47 | | B42 | *42:05:01-42:05:02 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | | Well No. |

Negative Control

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *42:08, 42:19 | B42, - | | | | | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *42:09 | B42 | | | | | | | | | | | | 12 | | | | | | | | | | | | 24 |
| *42:11 | - | | | | | | | | 8 | | | 11 | | | | | | | | | | | | | 24 |
| *42:13 | - | | | | | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *42:16, 42:20 | - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *44:02:01:01-44:02:21, 44:02:23-44:02:29, 44:11, 44:19N, 44:21-44:24, 44:27:01-44:27:02, 44:33- 44:34:02, 44:48, 44:52N, 44:55, 44:59:01-44:59:02, 44:63, 44:66-44:68, 44:71- 44:74, 44:80, 44:84, 44:86-44:87, 44:89, 44:93, 44:101-44:102, 44:104, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126:01- 44:126:02, 44:137, 44:142, 44:148-44:149N, 44:151-44:152, 44:162, 44:168, 44:170, 44:172- 44:173, 44:176-44:177, 44:179 | B44, Null, - | | | | 4 | | | | | | | | | | | | | | 17 | | | | | | |
| *44:02:22, 44:12, 44:171N | B44, Null, - | | | | 4 | | | | | | | | | | | | | | 17 | | | | | | |
| *44:03:01-44:03:06, 44:03:08-44:03:15, 44:03:17-44:03:18, 44:04- 44:05:04, 44:13, 44:26, 44:28:01-44:30, 44:32, 44:35-44:36, 44:38-44:39, 44:42, 44:45, 44:51, 44:56N, 44:58N, 44:61N, 44:69-44:70, 44:76-44:79, 44:82, 44:85, 44:88, 44:92, 44:94, 44:96, 44:98, 44:105, 44:107- 44:109, 44:114-44:115, 44:117, 44:120, 44:122- 44:125, 44:128, 44:133, 44:136, 44:139, 44:141, 44:143, 44:147, 44:153- 44:155, 44:157, 44:159- 44:161, 44:163-44:165, 44:167, 44:174-44:175, 44:178, 44:180-44:181 | B44, Null, - | | | | 4 | | | | | | | | | | | | | | 17 | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|-------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ |
| | | | 28 | | | | | | | | | | | | | | | | | | | | 47 | | B42, - | *42:08, 42:19 |
| | | | 27 | 28 | | | | | | | | | | | | | | | | | | | 47 | | B42 | *42:09 |
| | | | 27 | | | | | | | | | | 38 | | | | | | | | | | 47 | | - | *42:11 |
| | | | 27 | 28 | 29 | | | | | | | | | | | | | | | | | | 47 | | - | *42:13 |
| | | | 27 | 28 | | | | | | | | | | | | | | | | | | | 47 | | - | *42:16, 42:20 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | *44:02:01:01-44:02:21, 44:02:23-44:02:29, 44:11, 44:19N, 44:21-44:24, 44:27:01-44:27:02, 44:33- 44:34:02, 44:48, 44:52N, 44:55, 44:59:01-44:59:02, 44:63, 44:66-44:68, 44:71 44:74, 44:80, 44:84, 44:86-44:87, 44:89, 44:93, 44:101-44:102, 44:104, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126:01- 44:126:02, 44:137, 44:142, 44:148-44:149N, 44:151-44:152, 44:162, 44:168, 44:170, 44:172- 44:173, 44:176-44:177, 44:179 |
| | | | | 29 | | | | | | | | | 38 | 39 | | | | | | | | | 46 | | B44, Null, - | |
| | | | | 29 | | | | | | | | | | 39 | | | | | | | | | 46 | | B44, Null, - | *44:02:22, 44:12, 44:171N |
| | | | | | | | | | | | | | | | | | | | | | | | | | | *44:03:01-44:03:06, 44:03:08-44:03:15, 44:03:17-44:03:18, 44:04- 44:05:04, 44:13, 44:26, 44:28:01-44:30, 44:32, 44:35-44:36, 44:38-44:39, 44:42, 44:45, 44:51, 44:56N, 44:58N, 44:61N, 44:69-44:70, 44:76-44:79, 44:82, 44:85, 44:88, 44:92, 44:94, 44:96, 44:98, 44:105, 44:107- 44:109, 44:114-44:115, 44:117, 44:120, 44:122- 44:125, 44:128, 44:133, 44:136, 44:139, 44:141, 44:143, 44:147, 44:153- 44:155, 44:157, 44:159- 44:161, 44:163-44:165, 44:167, 44:174-44:175, 44:178, 44:180-44:181 |
| | | | | 29 | | | | | | | | | | 38 | | | | | | | | | 46 | | B44, Null, - | |

Negative Control

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *44:03:07, 44:03:16, 44:03:19, 44:07, 44:81, 44:103, 44:111, 44:134 | B44, - | | | | | | | | | | | | | | | | | 17 | | | | | | | |
| *44:06 | B44 | | | | | | | | | | | | | | | | | 17 | | | | | | | |
| *44:08 | B44 | | | w | | | | | | | | | | | | | | 17 | | | | | | | |
| *44:09 | B45 | | | | 4 | | | | | | | | | | | | | 17 | | | | | | | |
| *44:10 | B44 | | | | 4 | | | | | | | 11 | | | | | | 17 | | | | | | | |
| *44:14 | B44 | | | | 4 | | | | 8 | | | | | | | | | 17 | | | | | | | |
| *44:15 | B12 | | | | 4 | | | | 8 | | | 11 | | | | | | | | | | | | | |
| *44:16, 44:91, 44:132 | B47/B44 , - | | | | 4 | | 6 | | | | | | | | | | | 17 | | | | | | | |
| *44:17, 44:43:01- 44:43:02, 44:144 | B44, - | | | | 4 | | | | | | | 12 | 13 | | | | | 17 | | | | | | | |
| *44:18 | B44 | | | | 4 | | | | 8 | | | 11 | | | | | | | | | | | | | |
| *44:20, 44:100 | B44, - | | | | 4 | | | | 8 | | | | | | | | | | | | | | | | |
| *44:25, 44:50 | B44 | | | | 4 | | | | | | | | | | | | | 17 | | | | | | | |
| *44:31 | B44 | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *44:37:01-44:37:02, 44:64:01-44:64:02 | B44, - | | | | 4 | | 6 | | | | | | | | | | | 17 | | | | | | | |
| *44:40, 44:130 | B44, - | | | | | | | | | | | 11 | | | | | 16 | 17 | | | | | | | |
| *44:41:01-44:41:02, 44:53, 44:99, 44:138Q | B44, - | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *44:44 | B44 | | | | | | | | | | | 11 | | | | | 16 | 17 | | | | | | | |
| *44:46, 44:75, 44:129 | B12, - | | | | 4 | | | | | | | | | | | | | 17 | | | | | | | |
| *44:47, 44:65 | B44, - | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *44:49 | B44 | | 2 | | 4 | | | | | | | | | | | | | 17 | | | | | | | |
| *44:54 | B44 | | | | 3 | 4 | | | | | | | | | | | | | | | | | | | |
| *44:57 | - | | | | w | | | | | | | | | | | | | 17 | | | | | | | |
| *44:60, 44:110 | - | | | | 3 | 4 | | | | | | | | | | | | 17 | | | | | | | |
| *44:62 | - | | | | 4 | | | | 8 | 9 | | | | | | | | 17 | | | | | | | |
| *44:83, 44:145 | - | | | | | | | | | | | | | | | | | 17 | | | | | | | |
| *44:90 | - | | | | 4 | | | | | | | | | | | | | 17 | | | | | | | |
| *44:95 | - | | | | 4 | | | | | | | | | | | | | 17 | | | | | | | |
| *44:97 | - | | | | 4 | | | | | | | | | | | | | 17 | | | | | | | |
| *44:106 | - | | | | 3 | 4 | | | | | | | | | | | | | | | | | | | |
| *44:127 | - | | | | 4 | | | | | | | | | | | | | 17 | | | | | | | |
| *44:131 | - | | | | | | | | | | | | | | | | | 17 | | | | | | | |
| *44:140 | - | | | | 4 | | | | | | | 11 | | | | | | 17 | | | | | | | |
| *44:146 | - | | | | 4 | | | | | | | | | | | | | 17 | | | | | | | |
| *44:150 | - | | 1 | | 4 | | 6 | | | | | | | | | | | 17 | | | | | | | |
| *44:156 | - | | 2 | | | | | | | | | 11 | | | | | | 17 | | | | | | | |
| *44:166 | - | | | | 4 | | | | 8 | | | | | | | | | | | | | | | | |
| *44:169 | - | | | | 4 | | | | | | | | | | | | | 17 | | | | | | | |
| *45:01, 45:05, 45:07, 45:11-45:14 | B45, - | | | | 4 | | | | 8 | | | 11 | | | | | | | | | | | | | 24 |
| *45:04 | B21 | | | | 4 | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *45:06 | B45 | | | | 4 | | | | 8 | | | 11 | | | | | | | | | | | | | 24 |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ |
| | | | | | | | | | | | | | | | | | | | | | | | | | HLA-B allele ⁴ |
| | | | | | 29 | | | | | | | | 38 | | | | | | | | | 46 | | | B44, - *44:03:07, 44:03:16, 44:03:19, 44:07, 44:81, 44:103, 44:111, 44:134 |
| | | | | | 29 | 30 | | | | | 36 | | | 39 | | | | | 44 | | | | 46 | | B44 *44:06 |
| | | | | | 29 | | | | | | | | 38 | 39 | | | | | | | | | 46 | | B44 *44:08 |
| | | | | | 29 | | | | | | | 37 | 38 | 39 | | | | | | | | | 47 | | B45 *44:09 |
| | | | | | 29 | | | | | | | | 38 | | | 41 | | | | | | | 46 | | B44 *44:10 |
| | | | | | 29 | | | | | | | | 38 | | | | | | | | | | 46 | | B44 *44:14 |
| | | | | | | 30 | | | | | | | 38 | | | 41 | | | | | | | 46 | | B12 *44:15 |
| | | | | | 29 | | | | | | | | 38 | 39 | | | | | | | | | 46 | | B47/B44 *44:16, 44:91, 44:132 |
| | | | | | 29 | | | | | | | | 38 | | | | | | | | | | 46 | | B44, - *44:17, 44:43:01-44:43:02, 44:144 |
| | | | | | | 30 | | | 34 | | | | 38 | | | 41 | | | | | | | 46 | | B44 *44:18 |
| | | | | | 29 | 30 | | | | | | | 38 | 39 | | | | | | | | | 46 | | B44, - *44:20, 44:100 |
| | | | | | 29 | | | | 34 | | 36 | | 38 | | | | | | | | | | 46 | | B44 *44:25, 44:50 |
| 25 | | | | | 29 | | | | | | | | 38 | | | | | | | | | | 46 | | B44 *44:31 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 46 | | B44, - *44:37:01-44:37:02, 44:64:01-44:64:02 |
| | | | | | 29 | | | | | | | | 38 | | | | | | | | | | 46 | | B44, - *44:40, 44:130 |
| | | | | | 29 | | | | | | | | 38 | 39 | | | | | | | | | 46 | | B44, - *44:41:01-44:41:02, 44:53, 44:99, 44:138Q |
| | | | | | 29 | | | | | | | | 38 | 39 | | | | | | | | | 46 | | B44 *44:44 |
| | | | | | 29 | | | | | | | 37 | 38 | | | | | | | | | | 47 | | B12, - *44:46, 44:75, 44:129 |
| | | | | | 29 | | | | | | | | 38 | | | | | | | | | | 46 | | B44, - *44:47, 44:65 |
| | | | | | 29 | | | | | | | | 38 | 39 | | | | | | | | | 46 | | B44 *44:49 |
| | | | | | 29 | | | | | | | | 38 | | | | | | | | | | 46 | | B44 *44:54 |
| | | | | | 29 | | | | | | | | 38 | | | | | | | | | | 46 | | - *44:57 |
| | | | | | 29 | | | | | | | | 38 | | | | | | | | | | 46 | | - *44:60, 44:110 |
| | | | | | 29 | | | | | | | | 38 | | | | | | | | | | 46 | | - *44:62 |
| | | | | | 29 | | | | | | | | 38 | 39 | | | | | | | | | 46 | | - *44:83, 44:145 |
| | | | | | 28 | 29 | | | | | | 37 | 38 | 39 | | | | | | | | | 47 | | - *44:90 |
| | | | | | 29 | | | | 34 | | 36 | | 38 | 39 | | | | | | | | | 46 | | - *44:95 |
| | | | | | 28 | 29 | | | | | | 38 | 39 | | | | | | | | | | 46 | | - *44:97 |
| | | | | | 29 | | | | | | | 38 | 39 | | | | | | | | | | 46 | | - *44:106 |
| | | | | | 29 | | | | | | | 38 | 39 | | | | | | | | | | | | - *44:127 |
| | | | | | 29 | | | | | | | 37 | 38 | 39 | | | | | | | | | 47 | | - *44:131 |
| | | | | | 29 | | | | | | | 38 | | | | 41 | | | | | | | 46 | | - *44:140 |
| | | | | | 29 | | | | | | | | 38 | | | | | | | | | 45 | 46 | | - *44:146 |
| | | | | | | | | | | | | | 38 | | | | | | | | | | 46 | | - *44:150 |
| | | | | | 29 | | | | | | | | 38 | | | | | | | | | | 46 | | - *44:156 |
| | | | | | 27 | | | | | | | | 38 | | | | | | | | | | 46 | | - *44:166 |
| 25 | | | | | 29 | | | | | | | | 38 | 39 | | | | | | | | | 46 | | - *44:169 |
| | | | | | | 30 | | | | | | 37 | 38 | | | 41 | | | | | | | 47 | | B45, - *45:01, 45:05, 45:07, 45:11-45:14 |
| | | | | | | 30 | | | | | | 37 | 38 | | | 41 | | | | | | | 47 | | B21 *45:04 |
| | | | | | 28 | 30 | | | | | | 37 | 38 | | | 41 | | | | | | | 47 | | B45 *45:06 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |

Negative Control



101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *45:08 | - | | | | 4 | | | | 8 | | | | | | | | | | | | | | | | 24 |
| *45:09 | - | | | | 4 | | | | 8 | | | | 12 | 13 | | | | | | | | | | | 24 |
| *45:10 | - | | | | 4 | | | | 8 | | 10 | | | | | | | | | | | | | | 24 |
| *46:01:01-46:01:06, 46:01:08-46:01:09, 46:04- 46:05, 46:07N, 46:09- 46:10, 46:14-46:16, 46:20, 46:22-46:24, 46:26- 46:31, 46:34-46:39, 46:42 | B46, Null, - | | | | | | | 7 | | | | | 12 | | | | | | | | | | | | |
| *46:01:07 | - | | | | | | | 7 | | | | | 12 | | | | | | | | | | | | |
| *46:02 | B46 | | | | | | | 7 | | | | | 12 | | | | | | | | | | | | |
| *46:03, 46:08, 46:13:01- 46:13:03, 46:19, 46:21:01- 46:21:02, 46:25 | B46, - | | | | | | | 7 | | | | | 12 | | | | | | | | | | | | |
| *46:06 | - | | | | | | | 7 | | | | | 12 | | | | | | | | | | | | |
| *46:11 | B22 | | | | | | | 7 | | | | | | | | | | | | | | | | | |
| *46:12 | - | | | 3 | | | | 7 | | | | | 12 | | | | | | | | | | | | |
| *46:17 | - | | | | | | | 7 | | | | | 12 | 13 | | | | | | | | | | | |
| *46:18 | - | | | | | | | 7 | | | | | | | | | | | | | | | | | |
| *46:32 | - | | | | | | | 7 | | | | | 12 | | | | | | | | | | | | |
| *46:33 | - | | | | | | | 7 | | | | | 12 | | | | | | 17 | | | | | | |
| *46:40 | - | | | | | | | 7 | | | | | 12 | | | | | | 18 | | | | | | |
| *47:01:01:01-47:01:02, 47:06-47:08 | B47, - | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *47:02 | B47 | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *47:03 | B47 | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *47:04-47:05 | B17, - | | | | 4 | 5 | | | | | | | | | | | | | | | | | | | |
| *48:01:01-48:01:04, 48:04, 48:07, 48:09, 48:11, 48:19-48:20, 48:22, 48:24, 48:27, 48:29-48:30 | B48, - | | | | | | | | | | | | 11 | | | | | | | | | | | | 24 |
| *48:02:01-48:02:03, 48:25 | B48/B70 , - | | | | | | | | | | | | 11 | 12 | | | | 17 | | | | | | | 24 |
| *48:03:01-48:03:02, 48:17 | B48, - | | | | | | | | | | | | 11 | | | | | | | | | | | | 24 |
| *48:05, 48:08 | B48, - | 1 | | | | | | | | | | | 11 | | | | | | | | | | | | 24 |
| *48:06 | - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *48:10, 48:12-48:13 | B48, - | | | | | | | | | | | | 11 | | | | | | | | | | | | 24 |
| *48:14 | B48 | | | | | | | | | | | | 11 | 12 | | | | | | | | | | | 24 |
| *48:15 | B48 | 1 | | | | | | | | | | | 11 | | | | | | | | | | | | 24 |
| *48:16 | B48 | | | | | | | | | | | | 11 | | | | | | | | | | | | 24 |
| *48:18 | B48 | | | | | | | | | | | | 11 | | | | | | | | | | | | |
| *48:21, 48:26 | - | | | | | 5 | | | | | | | 11 | | | | | | | | | | | | 24 |
| *48:23 | - | | | | | | | | | | | | 11 | 12 | | | | | | | | | | | 24 |
| *48:28 | - | | | | | | | | | | | | 11 | | | 15 | | | | | | | | | 24 |
| *48:31 | - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|--|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | |
| | | | | | | | | | | | | | | | | | | | | | | | | | HLA-B allele ⁴ | |
| | | | | | 30 | | | | | | | 37 | 38 | | 40 | | | | | | | | 47 | - | *45:08 | |
| | | | | | 30 | | | | | | | 37 | 38 | | | | | | | | | | 47 | - | *45:09 | |
| | | | | | 30 | | | | | | | 37 | 38 | | | | | | | | | | 47 | - | *45:10 | |
| | | | 28 | | | 31 | | | | | | | | | | | | | | | 45 | | 47 | B46, Null, - | *46:01:01-46:01:06, 46:01:08-46:01:09, 46:04- 46:05, 46:07N, 46:09- 46:10, 46:14-46:16, 46:20, 46:22-46:24, 46:26 46:31, 46:34-46:39, 46:42 | |
| | 26 | | 28 | | | 31 | | | | | | | | | | | | | | | 45 | | 47 | - | *46:01:07 | |
| | | | w | | | 31 | | | | | | | | | | | | | | | | 45 | | 47 | B46 | *46:02 |
| | | | 28 | | | 31 | | | | | | | | | | | | | | | | | | 47 | B46, - | *46:03, 46:08, 46:13:01- 46:13:03, 46:19, 46:21:01- 46:21:02, 46:25 |
| 25 | | | 28 | | | 31 | | | | | | | | | | | | | | | | | | 47 | - | *46:06 |
| | | | 28 | | | 31 | | | | | | | | | 41 | | | | | | | | | 47 | B22 | *46:11 |
| | | | 28 | | | 31 | | | | | | | | | | | | | | | | 45 | | 47 | - | *46:12 |
| | | | 28 | | | 31 | | | | | | | | | | | | | | | | 45 | | 47 | - | *46:17 |
| | | | 28 | | | 31 | | | | | | | | | 40 | | | | | | | | | 47 | - | *46:18 |
| | | | 28 | | | 31 | | | | w | | | | | | | | | | | | 45 | | 47 | - | *46:32 |
| 26 | | | 28 | | | 31 | | | | | | | | | | | | | | | | | | 47 | - | *46:33 |
| | | | 28 | | | | | | | | | | | | 40 | | | | | | | 45 | | 47 | - | *46:40 |
| 26 | | | | | | 32 | | | | | | | 38 | | | | | | | | | | 46 | B47, - | *47:01:01:01-47:01:02, 47:06-47:08 | |
| 26 | | | | | | 32 | | | | | | 37 | 38 | | | | | | | | | | 47 | B47 | *47:02 | |
| 26 | | | | | | 32 | | | | | | w | 38 | | | | | | | | | | 46 | w | B47 | *47:03 |
| 26 | | | | | | | | | | | | | 38 | | | | | | | | | | 46 | B17, - | *47:04-47:05 | |
| | | | | | | | | | | | 33 | | | | 38 | | | | | | | | | 47 | B48, - | *48:01:01-48:01:04, 48:04, 48:07, 48:09, 48:11, 48:19-48:20, 48:22, 48:24, 48:27, 48:29-48:30 |
| | | | | | | | | | | | | | | | 38 | | | | | | | | | 47 | B48/B70 , - | *48:02:01-48:02:03, 48:25 |
| 25 | | | | | | | | | | | | | | | 38 | | | | | | | | | 47 | B48, - | *48:03:01-48:03:02, 48:17 |
| | | | | | | | | | | | | | | | 38 | | | | | | | | | 47 | B48, - | *48:05, 48:08 |
| | | | | | | | | | | 33 | | | | | | | | | | | | | | 47 | - | *48:06 |
| | | | | | | | | | | | | | | | 38 | | | | | | | | | 47 | B48, - | *48:10, 48:12-48:13 |
| | | | | | | | | | | | | | | | 38 | | | | | | | | | 47 | B48 | *48:14 |
| | | | | | | | | | | 33 | | | | | 38 | | | | | | | | | 47 | B48 | *48:15 |
| | | | | | | | | | | 33 | | | | | | | | | | | | | | 47 | B48 | *48:16 |
| | | | | | | | | | | 33 | | | | | 38 | | | | | | | | 46 | | B48 | *48:18 |
| | | | | | | | | | | | | | | | 38 | | | | | | | | | 47 | - | *48:21, 48:26 |
| 25 | | | | | | | | | | | | | | | 38 | | | | | | | | | 47 | - | *48:23 |
| | | | | | | | | | | 33 | | | | | 38 | | | | | | | | | 47 | - | *48:28 |
| | | | | | | | | | | 33 | | | | | 38 | | | | | | | | | 47 | - | *48:31 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |

Negative Control



101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *49:01:01, 49:01:03-49:01:04, 49:06, 49:08-49:10, 49:12-49:17, 49:19N, 49:22-49:24 | B49, Null, - | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *49:01:02, 49:11 | B49, - | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *49:02 | B49 | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *49:03 | B49 | | | | | | | | | | | | | | | | | | | | | | | | |
| *49:04-49:05 | B49 | | | | 4 | | | | | | | | 12 | | | | | | | | | | | | |
| *49:07 | - | | | | 4 | | | | | | 10 | | | | | | | | | | | | | | |
| *49:18 | - | | | | 4 | | | | | 9 | | | | | | | | | | | | | | | |
| *49:20 | - | | | | 4 | | | | | | 11 | | | | | | | | | | | | | | |
| *49:21 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| *49:25 | - | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| *49:26 | - | | | | | | | | | | | | | | | 16 | | | | | | | 22 | 23 | |
| *50:01:01-50:01:03, 50:04-50:05, 50:08, 50:10-50:11, 50:13, 50:16, 50:18-50:19, 50:32 | B50, - | | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *50:02 | B45 | | | | 4 | | | | | | 11 | | | | | | | | | | | | | | 24 |
| *50:06 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *50:07 | - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *50:09, 50:20 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *50:12 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *50:14 | - | | | | 4 | | | | | 9 | | | | | | | | | | | | | | | 24 |
| *50:15 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | 24 |
| *50:17 | - | | | | 4 | | | | | | | | | | | | | | 17 | | | | | | 24 |
| *50:31 | - | | | | 4 | | | | | | 10 | | | | | | | | | | | | | | 24 |
| *50:33 | - | | | | 4 | | | | | | | | 12 | | | | | | | | | | | | 24 |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|-------------------|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ |
| | | | | | | | | | 34 | 35 | | | 38 | | | 41 | | | | | | 46 | | | B49, Null, - | *49:01:01, 49:01:03-49:01:04, 49:06, 49:08-49:10, 49:12-49:17, 49:19N, 49:22-49:24 |
| | | | | | | | | | 34 | | | | 38 | | | 41 | | | | | | 46 | | | B49, - | *49:01:02, 49:11 |
| | | | | | | | | | | 35 | | | 38 | | | 41 | | | | | | 46 | | | B49 | *49:02 |
| | | | | | | | | | | 35 | | | 38 | | | 41 | | | | | | 46 | | | B49 | *49:03 |
| | | | | | | | | | 34 | 35 | | | 38 | | | | | | | | | 46 | | | B49 | *49:04-49:05 |
| | | | | | | | | | 34 | 35 | | | 38 | | | | | | | | | 46 | | | - | *49:07 |
| | | | | | | | | | 34 | 35 | | | 38 | | | | | | | | | 46 | | | - | *49:18 |
| | | | | | | | | | 34 | 35 | | | 38 | | | 41 | | | | | | 46 | | | - | *49:20 |
| | | | | | | | | | 34 | 35 | | | 38 | | | 41 | | | | | | | | | - | *49:21 |
| | | | | | | | | | 34 | 35 | | | 38 | | | 41 | | | | | | 46 | | | - | *49:25 |
| | | | | | | | | | | 35 | | | | | | 41 | | | | | | 46 | | | - | *49:26 |
| | | | | | | | | | | 35 | | | 37 | 38 | | 41 | | | | | | | 47 | | B50, - | *50:01:01-50:01:03, 50:04-50:05, 50:08, 50:10-50:11, 50:13, 50:16, 50:18-50:19, 50:32 |
| | | | | | | | | | 35 | | | | 37 | 38 | | 41 | | | | | | 47 | | | B45 | *50:02 |
| | | | | | | | | | 35 | | | | 38 | | | 41 | | | | | | 47 | | | - | *50:06 |
| | | | | | | | | | 35 | | | | 37 | 38 | | 41 | | | | | | 47 | | | - | *50:07 |
| | | | | | | | | | 35 | | | | 37 | 38 | | | | | | | | 47 | | | - | *50:09, 50:20 |
| | | | | | | | | | | | | | 37 | 38 | | 41 | | | | | | 47 | | | - | *50:12 |
| | | | | | | | | | 35 | | | | 37 | 38 | | | | | | | | 47 | | | - | *50:14 |
| | | | | | | | | | 35 | | | | 37 | | | 41 | | | | | | 47 | | | - | *50:15 |
| | | | | | | | | | | | | | 37 | 38 | | 41 | | | | | | 47 | | | - | *50:17 |
| | | | | | | | | | 35 | | | | 37 | 38 | | | | | | | | 47 | | | - | *50:31 |
| | | | | | | | | | 35 | | | | 37 | 38 | | | | | | | | 47 | | | - | *50:33 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *51:01:01, 51:01:03, 51:01:05-51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26-51:01:39, 51:01:41-51:02:01, 51:02:03, 51:02:05-51:03, 51:07:01, 51:09:01, 51:11N-51:12, 51:13:02- 51:14, 51:16-51:19, 51:21- 51:23, 51:26-51:33, 51:38- 51:41N, 51:43, 51:48- 51:53, 51:55, 51:57- 51:58, 51:60, 51:65- 51:67, 51:69-51:77, 51:79- 51:80, 51:82-51:88, 51:90- 51:91, 51:94-51:96, 51:98N, 51:100, 51:102, 51:105, 51:107-51:111, 51:113-51:115, 51:117, 51:120-51:130, 51:133- 51:134, 51:136-51:138, 51:140, 51:142, 51:145- 51:146, 51:149N-51:152, 51:154 | B51, B5102/B 51, B5103/B 51, B51/blank, Null, - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *51:01:02, 51:02:02, 51:05, 51:07:02, 51:09:02, 51:89, 51:103, 51:116, 51:119, 51:132 | B51, B5102/B 51, - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *51:01:04, 51:02:04, 51:13:01, 51:24:01, 51:34- 51:35, 51:92, 51:99, 51:131, 51:143 | B51, B5102/B 51, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *51:01:09 | B51 | | | | | | | | | 9 | | | | | | | | | | | | | | | 24 |
| *51:01:21, 51:01:25, 51:24:03-51:24:04 | B51, - | | | | | | | | | 9 | | | | | | | | | | | | | | | 24 |
| *51:01:40, 51:54, 51:78:01-51:78:02 | - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *51:04, 51:46, 51:56:01- 51:56:02, 51:139 | B51, - | | | | | | | | | 9 | | | | | | | | 17 | | | | | | | |
| *51:06:01-51:06:02, 51:59, 51:135 | B51, - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *51:08, 51:20, 51:44N, 51:141, 51:153 | B51, Null, - | | | | | | | | 8 | 9 | | | | | | | | | | | | | | | |
| *51:10 | B51 | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *51:15 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|-------------------|--|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | *51:01:01, 51:01:03, 51:01:05-51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26-51:01:39, 51:01:41-51:02:01, 51:02:03, 51:02:05-51:03, 51:07:01, 51:09:01, 51:11N-51:12, 51:13:02- 51:14, 51:16-51:19, 51:21 B51, B5102/B 51, B5103/B 51, B51/blan k, Null, - | *51:01:02, 51:02:02, 51:05, 51:07:02, 51:09:02, 51:89, 51:103, 51:116, 51:119, 51:132 *51:01:04, 51:02:04, 51:13:01, 51:24:01, 51:34 51:35, 51:92, 51:99, 51:131, 51:143 *51:01:09 *51:01:21, 51:01:25, 51:24:03-51:24:04 *51:01:40, 51:54, 51:78:01-51:78:02 *51:04, 51:46, 51:56:01- 51:56:02, 51:139 *51:06:01-51:06:02, 51:59, 51:135 *51:08, 51:20, 51:44N, 51:141, 51:153 *51:10 *51:15 |
| | | | | | 30 | | | | | 35 | 36 | | | | | | | | 44 | | 46 | | | | Negative Control | | |
| | | | | | | | | | | | 35 | 36 | | | | | | | | 44 | | 46 | | | | B51, B5102/B 51, - | |
| | | | | | 30 | | | | | | 35 | 36 | | | | | | | | 44 | | 46 | | | | B51, B5102/B 51, - | |
| | | | | | | | | | | 35 | 36 | | | | | | | | | 44 | | 46 | | | | B51 | |
| | | | | | 30 | | | | | | 35 | 36 | | | | | | | | 44 | | 46 | | | | B51, - | |
| | | | | | | | | | | 35 | | | | | | | | | | 44 | | 46 | | | | - | |
| | | | | | 30 | 31 | | | | | 36 | | | | | | | | | 44 | | 46 | | | | B51, - | |
| | | | | | 30 | | | | | | 36 | | | | | | | | | 44 | | 46 | | | | B51, - | |
| | | | | | 30 | | | | | | 35 | 36 | | | | | | | | 44 | | 46 | | | | B51, Null, - | |
| | | | | | 30 | | | | | | 36 | | | | | | | | | 44 | | 46 | | | | B51 | |
| | | | | | | | | | | | 36 | | | | | 41 | | | | 44 | | 46 | | | | - | |
| | | | | | | | | | | | 36 | | | | | | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | | Well No. | | |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *51:24:02 | B51 | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *51:36 | B51 | | | | | | | | 8 | | | | | | | | | | | | | | | | |
| *51:37, 51:63 | B51, - | | | | | | | | | 9 | | | 12 | | | | | | | | | | | | |
| *51:42 | - | | | | | | | | | | | | | | | | | 17 | | | | | | | |
| *51:45 | - | | | | | | | | | | | 12 | | | | | | | | | | | | | |
| *51:61:01-51:61:02 | - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *51:62 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *51:64 | - | | | 3 | | | | | | 9 | | | | | | | | | | | | | | | |
| *51:68 | - | | 2 | | | | | | | 9 | | | | | | | | | | | | | | | |
| *51:81 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *51:93, 51:144 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *51:97 | - | | | | | | | | 8 | 9 | | | 12 | | | | | | | | | | | | |
| *51:101 | - | | | | | | | | | 9 | | | | | | | | | | | | | 21 | | |
| *51:104, 51:118N, 51:147 | Null, - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *51:106 | - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *51:112 | - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *51:148 | - | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| *52:01:01:01-52:01:01:02, 52:01:03, 52:01:06- 52:01:08, 52:01:11- 52:01:14, 52:01:16- 52:01:17, 52:04-52:05, 52:07-52:08, 52:10:01- 52:13, 52:15, 52:17- 52:18, 52:22-52:24, 52:27- 52:31 | B52, - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *52:01:02, 52:01:04, 52:01:09, 52:02:01-52:03, 52:06:01-52:06:02, 52:09 | B52, - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *52:01:05, 52:01:15, 52:14 | B52, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *52:01:10 | - | | | | | | | | | 9 | | | | | | | | | | | | | 22 | | |
| *52:16 | - | | | | | | | | | 9 | | 11 | | | | | | | | | | | | | |
| *52:19 | - | | | | | | | | 8 | 9 | | | | | | | | | | | | | | | |
| *52:20 | - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *52:21 | - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *52:25 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *52:26 | - | | | | | | 6 | | | 9 | | | | | | | | | | | | | | | |
| *53:01:01-53:01:08, 53:05, 53:08:01-53:08:02, 53:10, 53:15-53:16, 53:18, 53:20-53:21, 53:23- 53:27, 53:29 | B53, - | | | | | | | | | | | | 12 | | | | | 17 | | | | | | | |
| *53:02 | B53 | | | | | | | | | | | | 12 | | | | | 17 | | | | | | | |
| *53:03, 53:09, 53:11- 53:13 | B53/B35 | | | | | | | | | | | | 12 | | | | | 17 | | | | | | | |
| *53:04, 53:07, 53:19 | B53, - | | | | | | | | | | | | | | | | | 17 | | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | ser. ⁵ | Well No. HLA-B allele ⁴ | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|-------------------|--|--|
| | | | | | 30 | | | | | 35 | 36 | | | | | | | | 44 | 46 | | | | B51 | *51:24:02 | |
| | | | | | 30 | | | | | 35 | 36 | | | | | | | | 44 | 46 | | | | B51 | *51:36 | |
| | | | | | 30 | | | | | 35 | 36 | | | | | | | | 44 | 46 | | | | B51, - | *51:37, 51:63 | |
| | | | | 29 | 30 | | | | | | 36 | | | | | | | | 44 | 46 | | | | - | *51:42 | |
| | | | | | 30 | | | | | | 36 | | | | | | | | 44 | 46 | | | | - | *51:45 | |
| | | | | | 30 | | | | | 35 | 36 | | | | | | | | 44 | 45 | 46 | | | - | *51:61:01-51:61:02 | |
| | | | | | 30 | | | | | | 36 | | | | 41 | 43 | 44 | | 44 | 46 | | | | - | *51:62 | |
| | | | | | 30 | | | | | | 36 | | | | | | | | 44 | 46 | | | | - | *51:64 | |
| | | | | | 30 | | | | | 35 | 36 | | | | | | | | 44 | 46 | | | | - | *51:68 | |
| | | | | | 30 | | | | | | 36 | | | | | | | | 44 | 46 | | | | - | *51:81 | |
| | | | | | | | | | | 35 | 36 | | | | | | | | 44 | 46 | | | | - | *51:93, 51:144 | |
| | | | | | 30 | | | | | 35 | 36 | | | | | | | | 44 | 46 | | | | - | *51:97 | |
| | | | | | 30 | | | | | 35 | 36 | | | | | | | | 44 | 46 | | | | - | *51:101 | |
| | | | | | 30 | | | | | 35 | 36 | | | | | | | | | | 46 | | | Null, - | *51:104, 51:118N, 51:147 | |
| | | | | | 30 | | | | | 35 | 36 | | | | 41 | | | | 44 | 46 | | | | - | *51:106 | |
| | | | | | 30 | | | | 34 | 35 | 36 | | | | | | | | | | 46 | | | - | *51:112 | |
| | | | | | | | | | | | 36 | | | | | | | | 44 | 46 | | | | - | *51:148 | |
| | | | | | | | | | | 35 | 36 | | 38 | | | | | | | | | 46 | | Negative Control | B52, - | *52:01:01:01-52:01:01:02, 52:01:03, 52:01:06- 52:01:08, 52:01:11- 52:01:14, 52:01:16- 52:01:17, 52:04-52:05, 52:07-52:08, 52:10:01- 52:13, 52:15, 52:17- 52:18, 52:22-52:24, 52:27 52:31 |
| | | | | | 30 | | | | | 35 | 36 | | 38 | | | | | | | | | 46 | B52, - | | *52:01:02, 52:01:04, 52:01:09, 52:02:01-52:03, 52:06:01-52:06:02, 52:09 | |
| | | | | | | | | | | 35 | 36 | | 38 | | | | | | | | | 46 | B52, - | | *52:01:05, 52:01:15, 52:14 | |
| | | | | | | | | | | 35 | 36 | | 38 | | | | | | | | | 46 | - | | *52:01:10 | |
| | | | | | | | | | | 35 | 36 | | 38 | | | | | | | | | 46 | - | | *52:16 | |
| | | | | | 30 | | | | | 35 | 36 | | 38 | | | | | | | | | 46 | - | | *52:19 | |
| | | | | | | | | | | 35 | | | 38 | | | | | | | | | 46 | - | | *52:20 | |
| | | | | | 30 | | | | | 35 | 36 | | 38 | | | | | | | | 45 | 46 | - | | *52:21 | |
| | | | | | | | | | | 35 | 36 | | 38 | | 41 | | | | | | | 46 | - | | *52:25 | |
| | | | | | | | | | | 35 | 36 | | 38 | | | | | | | | | 46 | - | | *52:26 | |
| | | | | | | | | | | | 36 | | | | | | | | | 44 | 46 | | | B53, - | *53:01:01-53:01:08, 53:05, 53:08:01-53:08:02, 53:10, 53:15-53:16, 53:18, 53:20-53:21, 53:23 53:27, 53:29 | |
| | | | | | 31 | | | | | | 36 | | | | | | | | | 44 | 46 | | | B53 | *53:02 | |
| | | | | | | | | | | | | | | | | | | | | 44 | 46 | | | B53/B35 | *53:03, 53:09, 53:11- 53:13 | |
| | | | | | | | | | | | 36 | | | | | | | | | 44 | 46 | | | B53, - | *53:04, 53:07, 53:19 | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | | Well No. | |

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 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *53:06 | B53/B51 | | | | | | | | | | | | 12 | | | | | 17 | | | | | | | |
| *53:14 | - | | | 3 | | | | | | | | | 12 | | | | | | | | | | | | |
| *53:17:01-53:17:02 | - | | | | | | | | | | | | 12 | | | | | 17 | | | | | | | |
| *53:22 | - | | | | | | | | | | | | 12 | 13 | | | | 17 | | | | | | | |
| *53:28 | - | | | | | | | | | 9 | | | 12 | | | | | 17 | | | | | | | |
| *53:30, 57:45, 57:51 | - | | | | 4 | | | | | | | | 12 | | | | | 17 | | | | | | | |
| *53:31 | - | | | | | | | | | | | | | | | | | 17 | | | | | | | |
| *54:01:01, 54:01:03- 54:02, 54:05N, 54:07- 54:08N, 54:10, 54:13, 54:16-54:19, 54:21-54:25, 54:27-54:29 | B54, Null, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:01:02, 55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48, 55:50, 55:57 ¹¹ | B55, B54, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:03 | B22 | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:04, 54:15 | B54, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:06 | - | | | | | | | | | | | | | 12 | | | | | | | | | | | |
| *54:09, 54:14 | - | | | | | | | | | | | | | 12 | | | | | | | | | | | |
| *54:11 | B54 | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *54:12 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:20 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:26 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *54:30 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:01:01-55:01:06, 55:01:08-55:01:11, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:44-55:45, 55:52- 55:55N, 55:59 | B55, Null, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:04, 55:08, 55:13, 55:27, 55:46, 55:49, 56:01:05, 56:15, 56:19N, 56:22 ¹² | B55, B56, Null, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:09, 55:24 | B22, B55 | | | | | | | | | | | 10 | | | | | | | | | | | | | |
| *55:14 | - | | | | | | | | | | | | | 12 | | | | 17 | | | | | | | |
| *55:17, 55:28, 55:58 | B55, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:18 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:20 | B22 | | | | | | | | 8 | | | | | | | | | | | | | | | | |
| *55:21 | B55 | | | | | | | | | | | | | | | | | | | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

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 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | | 30 | 31 | | | | | | 36 | | | | | | | | 44 | | 46 | | | B53/B51 | *53:06 |
| | | | | | | | | | | | 36 | | | | | | | | 44 | | 46 | | | - | *53:14 |
| | | | | | | | | | | | 36 | 38 | | | | | | | | | 46 | | | - | *53:17:01-53:17:02 |
| | | | 29 | | | | | | | | 36 | | | | | | | | 44 | | 46 | | | - | *53:22 |
| | | | | | 31 | | | | | | 36 | 38 | | | | | | | | | | 46 | | - | *53:28 |
| | | | | | | | | 34 | | 36 | | | | | | | | | | | | 46 | | - | *53:30, 57:45, 57:51 |
| | | | | | | | | | | | | | | | | | | | | 44 | | 46 | | - | *53:31 |
| | | | 28 | | | | 32 | | | | | | | 39 | 40 | | | | | | | | 47 | B54, Null, - | *54:01:01, 54:01:03- 54:02, 54:05N, 54:07- 54:08N, 54:10, 54:13, 54:16-54:19, 54:21-54:25, 54:27-54:29 |
| | | | 28 | | | | 32 | | | | | | | | 40 | | | | | | | | 47 | B55, B54, - | *54:01:02, 55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48, 55:50, 55:57 ¹¹ |
| | | | 28 | | | | 32 | | | | | | 39 | | 41 | | | | | | | | 47 | B22 | *54:03 |
| | | | 28 | | | | 32 | | | | | | 39 | | | | | | | | | | 47 | B54, - | *54:04, 54:15 |
| | | | 28 | | | | 32 | | | | | | 39 | | | | | | | | 45 | | 47 | - | *54:06 |
| | | | 28 | | | | 32 | | | | | | 39 | | | | | | | | | | 47 | - | *54:09, 54:14 |
| | | | 28 | | | | 32 | | | | | | 39 | | | | | | | | | | 47 | B54 | *54:11 |
| | | | 28 | | | | 32 | 34 | | | | | 39 | 40 | | | | | | | | 46 | | - | *54:12 |
| | | | 28 | | | | 32 | | 35 | | | | 39 | 40 | | | | | | | | | 47 | - | *54:20 |
| | | | 28 | | | | 32 | | | | | | 39 | | | | | | | | | | 47 | - | *54:26 |
| | | | | | | | | | | | | | 39 | 40 | | | | | | | | | 47 | - | *54:30 |
| | | | 28 | | | | 32 | | | 35 | | | | | 40 | | | | | | | | 47 | B55, Null, - | *55:01:01-55:01:06, 55:01:08-55:01:11, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:44-55:45, 55:52- 55:55N, 55:59 |
| | | | 28 | | | | 32 | | | | | | | | | | | | | | | | 47 | B55, B56, Null, - | *55:04, 55:08, 55:13, 55:27, 55:46, 55:49, 56:01:05, 56:15, 56:19N, 56:22 ¹² |
| | | | 28 | | | | 32 | | | 35 | | | | | | | | | | | | | 47 | B22, B55 | *55:09, 55:24 |
| | | | 28 | | | | 32 | | | | | | | | | 42 | | | | | | | 47 | - | *55:14 |
| | | | 28 | | | | 32 | | | 35 | | | | | | | | | | | | | 47 | B55, - | *55:17, 55:28, 55:58 |
| | | | | | | | | | | | | | 38 | | 40 | | | | | | | | 47 | - | *55:18 |
| | | 27 | 28 | | 30 | | 32 | | | | | | | | | | | | | | | | 47 | B22 | *55:20 |
| | | 28 | | | | | 32 | | | w | | | | | 40 | | | | | | 45 | | 47 | B55 | *55:21 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |

Negative Control

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:22 | B22 | | | | | | | | | | 10 | | | | | | | | | | | | | | |
| *55:23, 55:32, 56:18, 56:31-56:32 ¹³ | B55, - | | | | | | | | | | | | 12 | | | | | | | | | | | | |
| *55:34 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:40 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *55:51 | - | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| *55:56 | - | | | | | | | | 8 | | | | | | | | | | | | | | | | |
| *56:01:01-56:01:04, 56:01:06, 56:08, 56:14, 56:16, 56:20:01, 56:24, 56:26-56:30, 56:34-56:36, 56:38N, 56:41 | B56, Null, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:02, 56:04 | B56 | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:03 | B22/15 | | | | | | | | | | | | 12 | | | | | | | | | | | | |
| *56:05:01 | B56 | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *56:05:02 | B56 | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *56:06 | B78 | | | | | | | | | 9 | | | | | | | | | 18 | | | | | | |
| *56:07 | B56 | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:09 | B56 | | | | | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *56:10 | B55 | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:11-56:12 | B56, B22 | | | | | | | | | | | | | | | | | | 17 | | | | | | |
| *56:13 | B56 | | | | | | | | 8 | | | | | | | | | | | | | | | | |
| *56:17, 56:33, 56:42 | B56, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:20:02 | - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *56:21 | - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *56:23 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:25, 56:37 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *56:39 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *57:01:01-57:01:04, 57:01:06-57:01:15, 57:06, 57:08, 57:10, 57:15- 57:16, 57:18-57:20, 57:22- 57:23, 57:25-57:27, 57:29- 57:30, 57:33-57:38, 57:40- 57:41, 57:43-57:44, 57:48- 57:50, 57:52-57:56, 57:58, 57:60-57:62, 57:64- 57:65 | B57, - | | | | | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47 | B57, - | | | | | | | | | | | | 12 | | | | | | | | | | | | |
| *57:02:01-57:03:02, 57:17, 57:28N, 57:32, 57:39, 57:42, 57:46, 57:57, 57:63 | B57, Null, - | | | | | | | | | | | | | | | | | | | 17 | | | | | |
| *57:04 | B57 | | | | | | 6 | | | | | | | | | | | | | 17 | | | | | |
| *57:05 | B57 | | | | | | | | | | | | | | | | | | | 17 | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|---|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | 28 | | | | 32 | | | | | | | | | | | | | | | | 47 | B22 | *55:22 |
| | | | 28 | | | | 32 | | | | | | | | | | | | | | | | 47 | B55, - | *55:23, 55:32, 56:18, 56:31-56:32 ¹³ |
| | | | 28 | | | | 32 | | | | | | 38 | 40 | | | | | | | | | 47 | - | *55:34 |
| | | | 28 | | | | 32 | | | 35 | | | 38 | 40 | | | | | | | | | 47 | - | *55:40 |
| | | | 28 | | | | 32 | | | | | | | | | | | | | | | | 47 | - | *55:51 |
| | | | 28 | 30 | | | 32 | | | | | | | | 40 | | | | | | | | 47 | - | *55:56 |
| | | | 28 | | | | 32 | | | | | | | | | 41 | | | | | | | 47 | B56, Null, - | *56:01:01-56:01:04, 56:01:06, 56:08, 56:14, 56:16, 56:20:01, 56:24, 56:26-56:30, 56:34-56:36, 56:38N, 56:41 |
| | | | 28 | | | | 32 | | | | | | | | | 41 | 43 | | | | | | 47 | B56 | *56:02, 56:04 |
| | | | 28 | | | | 32 | | | | | | | | | | | | | | 45 | | 47 | B22/15 | *56:03 |
| | | | 28 | | | | 32 | | | 35 | | | | | 40 | | | | | | | | 47 | B56 | *56:05:01 |
| | | | 28 | | | | 32 | | | 35 | | | | | | | | | | | | | 47 | B56 | *56:05:02 |
| | | | 28 | | | | 32 | | | 35 | | | | | 40 | | | | w | | | | 47 | B78 | *56:06 |
| | | | 28 | | | | 32 | | | | | | | | | 41 | | | | | | | 46 | B56 | *56:07 |
| | | | 28 | | | | 32 | | | | | | | | | | | | | | | | 47 | B56 | *56:09 |
| | | | 28 | | | | 32 | | | | | | | | 40 | | 43 | | | | | | 47 | B55 | *56:10 |
| | | | 28 | | | | 32 | | | | | | | | | | | | | | | | 47 | B56, B22 | *56:11-56:12 |
| | | | 28 | 30 | | | 32 | | | | | | | | | 41 | | | | | | | 47 | B56 | *56:13 |
| | | | 28 | | | | 32 | | | | | | | | | 41 | | | | | | | 47 | B56, - | *56:17, 56:33, 56:42 |
| | | | 28 | | | | 32 | | | | | | | | | 41 | | | | | | | 47 | - | *56:20:02 |
| | | | 28 | | | | 32 | | | 34 | 35 | | | | | | | | | | | | 46 | - | *56:21 |
| | | | | | | | | | | | | | | | 40 | | | | | | | | 47 | - | *56:23 |
| | | | 28 | | | | 32 | | | 35 | | | | | | 41 | | | | | | | 47 | - | *56:25, 56:37 |
| | | | 28 | | | | 32 | w | | | | | | | | 41 | | | | | | | 47 | - | *56:39 |
| | | | | | | | | | | | 36 | | | | | | 42 | | | | | | 46 | B57, - | *57:01:01-57:01:04, 57:01:06-57:01:15, 57:06, 57:08, 57:10, 57:15- 57:16, 57:18-57:20, 57:22 57:23, 57:25-57:27, 57:29 57:30, 57:33-57:38, 57:40 57:41, 57:43-57:44, 57:48 57:50, 57:52-57:56, 57:58, 57:60-57:62, 57:64 57:65 |
| | | | | | | | | | | | 36 | | | | | | 42 | | | | | | 46 | B57, - | *57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47 |
| | | | | | | | | | | | 36 | | | | | | 42 | | | | | | 46 | B57, Null, - | *57:02:01-57:03:02, 57:17, 57:28N, 57:32, 57:39, 57:42, 57:46, 57:57, 57:63 |
| | | | | | | | | | | | 36 | | | | | | 42 | | | | | | 46 | B57 | *57:04 |
| | 26 | | | | | | | | | | 36 | | | | | | 42 | | | | | | 46 | B57 | *57:05 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | |

Negative Control



101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| *57:07 | B57 | | | | | | | | | | | | | | | | | | 17 | | | | | | |
| *57:09 | B57 | | | | | | | | 8 | | | | | | | | | | 17 | | | | | | |
| *57:12 | B57 | | | | | | | | | | | | | | | | | | 17 | | | | | | |
| *57:14 | - | | | | | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *57:24 | - | | | | | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *57:59 | - | | | | | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *58:01:01-58:01:02, 58:01:04-58:01:12, 58:04- 58:05, 58:10N-58:15, 58:19, 58:21-58:24, 58:29, 58:31N-58:33, 58:35, 58:37, 58:39N- 58:42, 58:45 | B58, Null, - | | | | | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *58:01:03, 58:02, 58:06, 58:16:01-58:16:02, 58:25- 58:26, 58:38, 58:43, 58:46 | B58, - | | | | | | | | | | | | 12 | | | | | | | | | | | | |
| *58:07 | B58 | | | | | | | | | | | | 12 | 13 | | | | | | | | | | | |
| *58:08:01 | B17/B5 | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *58:08:02 | - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *58:09 | B17 | | | | | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *58:17N | Null | | | | | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *58:18 | - | | | 3 | | | | | | | | | 12 | | | | | | | | | | | | |
| *58:20 | - | | | | | | | | | | | | | | | | | | | | | 21 | | | |
| *58:27 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *58:28, 58:34 | - | | | | | | | | | | | | | | | | | | 17 | | | | | | |
| *58:36 | - | | | | | | | | | | | | 12 | | | | | | 17 | | | | | | |
| *58:44 | - | | | | | | | | | | | | 11 | 12 | | | | | 17 | | | | | | |
| *59:01:01:01-59:01:01:02, 59:05-59:06 | B59, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *59:02-59:03 | B59, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *59:04 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| *67:01:01, 67:03 | B67, - | | | | | 5 | | | | | | | | | | | | | | | | 21 | | 24 | |
| *67:01:02-67:02 | B67, - | | | | | | | | | | | | | | | | | | | | | 21 | | 24 | |
| *73:01-73:02 | B73, - | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *78:01:01-78:01:02, 78:02:02-78:03, 78:07 | B78, - | | | | | | | | | 9 | | | | | | | | | 18 | | | | | | |
| *78:02:01, 78:04 | B78, B35 | | | | | | | | | 9 | | | | | | | | | 18 | | | | | | |
| *78:05 | - | | | | | | | | | 9 | | | | | | | | | 18 | | | | | | |
| *78:06 | - | | | | | | | | | 9 | | | | | | | | | | | | | | | |
| *81:01 | B81 | | | | | | | | | | | | | | | | | | | | | | | | |
| *81:02 | B81 | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| *81:03-81:06 | Null, - | | | | | | | | | | | | | | | | | | | | | | | | |
| *82:01-82:03 | B82, - | | | | | | | | 8 | | | 11 | | | | | | | | 19 | | | | | |
| *83:01 | - | | | | | | | | | | | | | | | | | | 17 | | | | | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|------------------|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | | | |
| | | | | 29 | | | | | | | 36 | | | | | | 42 | | | | | 46 | | | B57 | *57:07 | |
| | | | | 29 | | | | | | | 36 | | | | | | 42 | | | | | 46 | | | B57 | *57:09 | |
| | | | | | | | | | | | | | | | | | 42 | | | | | 47 | | | B57 | *57:12 | |
| | | | | | | 31 | | | | | 36 | | | | | | 42 | | | | | 46 | | | - | *57:14 | |
| | | | | 29 | | | | | | | 36 | | | | | | 42 | | | | | 46 | | | - | *57:24 | |
| 25 | | | | | | | | | | | 36 | | | | | | 42 | | | | | 46 | | | - | *57:59 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | Negative Control | *58:01:01-58:01:02, 58:01:04-58:01:12, 58:04- 58:05, 58:10N-58:15, 58:19, 58:21-58:24, 58:29, 58:31N-58:33, 58:35, 58:37, 58:39N- 58:42, 58:45 | |
| | | | | | | | | | | | 36 | | | | | | | 43 | | | | 46 | | | | B58, Null, - | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | B58, - | *58:01:03, 58:02, 58:06, 58:16:01-58:16:02, 58:25- 58:26, 58:38, 58:43, 58:46 |
| | | | | | | | | | | | 36 | | | | | | | 43 | | | | 46 | | | | B58 | *58:07 |
| | | | | | | | | | | | 36 | | | | | | | 43 | | | | 46 | | | | B17/B5 | *58:08:01 |
| | | | | | | | | | | | 36 | | | | | | | 43 | | | | 46 | | | | - | *58:08:02 |
| | | | | | | | | | | | 36 | | | | | | | 43 | | | | 46 | | | | B17 | *58:09 |
| | | | | | | | | | | | 36 | | | | | | | 43 | | | | 46 | | | | Null | *58:17N |
| | | | | | | | | | | | 36 | | | | | | | 43 | | | | 46 | | | | - | *58:18 |
| | | | | | | | | | | | 36 | | | | | | | 43 | | | | 46 | | | | - | *58:20 |
| | | | | | | | | | | | 36 | | | | | | | 43 | | | | 46 | | | | - | *58:27 |
| | | | | | | | | | | | 36 | | | | | | | 43 | | | | 46 | | | | - | *58:28, 58:34 |
| | 26 | | | | | | | | | | 36 | | | | | | 42 | | | | | 46 | | | | - | *58:36 |
| | | | | | | | | | | | 36 | | | | | | | | | | | 46 | | | | - | *58:44 |
| | | | | | | | | | | | | | | | | | | | | | | | | | B59, - | *59:01:01:01-59:01:01:02, 59:05-59:06 | |
| | | | | | | | | | | | 34 | | | | | 40 | | | | | | 46 | | | B59, - | *59:02-59:03 | |
| | | | | | | | | | | | 34 | | | | | | 41 | | | | | 46 | | | - | *59:04 | |
| | | | | 28 | | | | | | | | | | | | | | | | | | | 47 | | B67, - | *67:01:01, 67:03 | |
| | | | | 28 | | | | | | | | | | | | | | | | | | | 47 | | B67, - | *67:01:02-67:02 | |
| | | | | 28 | | | | | | | | | | | | | | | | | | 45 | 47 | | B73, - | *73:01-73:02 | |
| | | | | | | | | | | | 35 | | | | | 40 | | | | 44 | | 47 | | | B78, - | *78:01:01-78:01:02, 78:02:02-78:03, 78:07 | |
| | | | | | | | | | | | 35 | | | | | | | | | 44 | | 47 | | | B78, B35 | *78:02:01, 78:04 | |
| | | | | | | | | | | | 35 | | | | | 38 | | | | | | 47 | | | - | *78:05 | |
| | | | | | | | | | | | 35 | | | | | 38 | | | | | | 47 | | | - | *78:06 | |
| | | | | 28 | | | | 32 | 33 | | | | | | | | | | | | | 47 | | | B81 | *81:01 | |
| | | | | 28 | | | | | 33 | | | | | | | | | | | | | 47 | | | B81 | *81:02 | |
| | | | | 28 | | | | | 33 | | | | | | | | | | | | | 47 | | | Null, - | *81:03-81:06 | |
| | | | | 28 | | | | 32 | | | | | | | | 41 | | | | | | 47 | | | B82, - | *82:01-82:03 | |
| | | | | 28 | 29 | | | 32 | | | | | | | | 39 | | | | | | 47 | | | - | *83:01 | |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | | |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|-------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| HLA-B allele ⁴ | ser. ⁵ | | | | | | | | | | | | | | | | | | | | | | | | |
| A*23:31, A*24:106, C*07:231, C*16:10 | - | | | | | 6 | | | | | | | | | | | | | | | | | | | |
| A*24:174 | - | | | | | | | | | | | | | 13 | | | | | | | | | | | |
| A*26:68, A*68:56, C*02:56, C*06:20, C*12:50 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| C*01:30, C*12:87 | - | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| C*01:73 | - | | | | | | | 7 | | | | | | | | | | | | | | | | | |
| C*02:06, C*02:47 | Cw2, - | | | | | | | | | | | | | | | | | | | | | | | | |
| C*02:23, C*04:77 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| C*03:05, C*03:25, C*03:27, C*03:143, C*03:167 | Cw3, Cw10, - | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| C*03:19 | Cw3 | | | | | | | | | | | | | | | | | | | | | | | | |
| C*03:102 | - | | | | | | | | | | | | | | | | | 17 | | | | | | | |
| C*03:129, C*17:16 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| C*03:179 | - | | | | | | | | | | | | | | | | | | | 19 | | | | | |
| C*06:72 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| C*07:02:30, C*08:16:02 | - | | | | | | | 7 | | | | | | | | | | | | | | | | | |
| C*07:46 | Cw7 | | | | | | | | 8 | | | | | | | | | | | | | | | | |
| C*07:302 | - | | | | | | | | | | | | | | | | | | | | | 20 | | | |
| C*15:02:04 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| C*15:25 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| C*15:39 | - | | | | | | | | | | | | | | | | | | | | | | | | |
| C*15:51 | - | | | | | | | | | | | | | | | | | | | | | | 21 | | |
| Well No. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B screening typing.

In addition, wells number 4 to 6, 10, 17, 20, 21, 28, 30, 31, 35 and 42 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

²The nucleotide position, in the 1st, 2nd or 3rd exon or in the 1st intron, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk, imgt, hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The nucleotide position, in the 2nd or 3rd exon or the 3rd intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the www.ebi.ac.uk, imgt, hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

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 101.503-48u/12u – without *Taq* pol., IFU-02

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| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|---------------------------|---|
| | | | | | | | | | | | | | | | | | | | | | | | | ser. ⁵ | HLA-B allele ⁴ | |
| | | | | | | | | | | | | | | | | | | | | | | | | | - | A*23:31, A*24:106, C*07:231, C*16:10 |
| | | | | | | | | | | | | | | | | | | | | | | | | | - | A*24:174 |
| | | | | | | | | | | | | | | | | | | | | | 45 | | | | - | A*26:68, A*68:56, C*02:56, C*06:20, C*12:50 |
| | | | | | | | | | | | | | | | | | | | | | | | | | - | C*01:30, C*12:87 |
| | 26 | | | | | 31 | | | | | | | | | | | | | | | | | | | - | C*01:73 |
| | | | | | | | | | | | | | | | | | w | | | | | | | | Cw2, - | C*02:06, C*02:47 |
| | | | | | | | | | | | | | | | | | | | | | | | | | - | C*02:23, C*04:77 |
| | | | | | | | | | | | | | | | | | | | | | | | | | Cw3, Cw10, - | C*03:05, C*03:25, C*03:27, C*03:143, C*03:167 |
| | | | | | | | | | | | | | | | | | 41 | | | | | | | | Cw3 | C*03:19 |
| | | | | | | | | | | | | | | | | 41 | | | | | | | | | - | C*03:102 |
| | 25 | | | | | | | | | | | | | | | | | | | | | | | | - | C*03:129, C*17:16 |
| | | | | | | | | | | | | | | | | | | | | | | | | | - | C*03:179 |
| | | | | | | | | | | | | | | | | | | 42 | | | | | | | - | C*06:72 |
| | | | | | | | | | | | | | | | | | | | | | | | | | - | C*07:02:30, C*08:16:02 |
| | | | | | | | | | | | | | | | | | | | | | | | | | Cw7 | C*07:46 |
| | | | | | | | | | | | | | | | | | | | | | | | | | - | C*07:302 |
| | | | | | | | | | | | | | | | | 40 | | | | | | | | | - | C*15:02:04 |
| | | | | | 29 | | | | | | | | | | | | | | | | | | | | - | C*15:25 |
| | | | | | | 31 | | | | | | | | | | | | | | | | | | | - | C*15:39 |
| | | | | | | | | | | | | | | | | | | | | | | | | | - | C*15:51 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | Well No. | | |

⁴The sequence of the B*0701 allele has been shown to be in error.
 The sequence of the B*08:06 allele has been shown to be identical to B*08:20.
 The sequence of the B*1305 allele has been shown to be identical to B*13:04.
 The B*13:08Q allele has been renamed B*13:08.
 The B*1324 allele has been renamed B*13:22:02.
 The B*150105 allele has been corrected and renamed B*15:120.
 The B*1522 allele has been renamed B*35:43.
 The sequence of the B*1541 allele has been shown to be identical to B*15:39.
 The B*1559 allele has been renamed B*35:44.
 The B*15:100 allele has never been assigned.
 The sequence of the B*1816 allele has been shown to be identical to B*18:14.
 The sequence of the B*27051 allele has been shown to be identical to B*27:05:02.
 The sequence of the B*2722 allele has been shown to be identical to the corrected B*27:06
 sequence.
 The B*3573 allele has been renamed B*35:08:03.
 The B*35:43:02 allele has been renamed B*35:185.
 The sequence of the B*39012 allele has been shown to be identical to B*39:01:01:01.
 The sequence of the B*3921 allele has been shown to be identical to B*39:24.
 The sequence of the B*4017 allele has been shown to be identical to B*40:16.
 The sequence of the B*4041 allele has been shown to be identical to B*40:40.
 The sequence of the B*4203 allele has never been assigned.
 The sequence of the B*4401 allele has been shown to be identical to B*44:02:01:01.
 The B*44:142Q allele has been renamed B*44:142.

101.503-48/12 – including *Taq* pol., IFU-01
101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: 89S**Lot-specific information**

The sequence of the B*5003 allele has been shown to be identical to B*50:02.

The sequence of the B*5125 allele has been shown to be identical to B*51:22.

The B*5147 allele has been renamed B*51:09:02.

The sequence of the B*5506 allele has been shown to be identical to B*55:04.

The sequence of the B*5803 allele has never been assigned.

The sequence of the B*58:30 allele has been shown to be identical to B*58:01:01.

The B*7901 allele has been renamed B*15:18:01.

The B*9530 allele has been renamed B*15:27:02.

⁵The serological reactivity of all HLA-B alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

⁶The B*08:26, 08:50, 08:62, 08:85, 08:94 and the 42:07 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁷The B*13:21, 13:35 and 13:59 and the B*44:135 and 44:158 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁸The B*14:08 and the B*39:25N, 39:30, 39:32-39:34, 39:47, 39:50, 39:74 and 39:82 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁹The B*18:29 and 18:72 and the B*35:32:01-35:32:02, 35:37, 35:53N, 35:64:01-35:64:02, 35:68:01-35:68:02, 35:99, 35:118-35:119 and 35:174 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

¹⁰The B*41:09 and the B*45:02-45:03 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

¹¹The B*54:01:02 and the B*55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48, 55:50 and 55:57 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

¹²The B*55:04, 55:08, 55:13, 55:27, 55:46, 55:49 and the B*56:01:05, 56:15, 56:19N and 56:22 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

¹³The B*55:23 and 55:32 and the B*56:18 and 56:31-56:32 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

¹⁴Primer mix 48 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

‘ser’, serological HLA specificity.

‘w’, might be weakly amplified.

‘?’, nucleotide sequence information not available for the primer matching sequence.

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 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------|------------|---------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B low resolution SSP kit | | | | | | | | | | | | | | | | | | | | |
| | | | | Well | | | | | | | | | | | | | | | | |
| | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| | | | | Prod. No.: | 201318701 | 201318702 | 201321803 | 201318704 | 201318705 | 201320806 | 201318707 | 201322108 | 201326409 | 201318710 | 201326411 | 201318712 | 201318713 | 201318714 | 201318715 | 201318716 |
| IHCW cell line | | B* | | | | | | | | | | | | | | | | | | |
| 1 | 9001 | SA | *07:02 | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 9280 | LK707 | *52:01 *73:01 | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 3 | 9011 | E4181324 | *52:01 | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 4 | 9275 | GU373 | *15:10 *53:01 | - | - | - | - | - | - | - | - | + | - | - | - | + | - | + | - | - |
| 5 | 9009 | KAS011 | *37:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 6 | 9353 | SM | *39:01 *51:01 | - | - | - | - | + | - | - | - | - | + | - | - | - | - | - | - | - |
| 7 | 9020 | QBL | *18:01 | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 8 | 9025 | DEU | *35:01 | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - |
| 9 | 9026 | YAR | *38:01 | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | 9107 | LKT3 | *54:01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | 9051 | PITOUT | *44:03 | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | 9052 | DBB | *57:01 | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - |
| 13 | 9004 | JESTHOM | *27:05 | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | + |
| 14 | 9071 | OLGA | *15:01 *15:20 | - | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - |
| 15 | 9075 | DKB | *40:01 | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | 9037 | SWEIG007 | *40:02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 17 | 9282 | CTM3953540 | *08:01 *55:01 | - | + | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - |
| 18 | 9257 | 32367 | *14:01 *56:01 | - | - | - | + | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 | 9038 | BM16 | *18:01 | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 20 | 9059 | SLE005 | *40:01 | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 21 | 9064 | AMALA | *15:01 | - | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - |
| 22 | 9056 | KOSE | *35:03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 23 | 9124 | IHL | *40:02 *56:02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 24 | 9035 | JBUSH | *38:01 | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 25 | 9049 | IBW9 | *14:02 | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - |
| 26 | 9285 | WT49 | *58:01 | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | - |
| 27 | 9191 | CH1007 | *07:05 *51:01 | + | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 28 | 9320 | BEL5GB | *44:02 *44:03 | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 29 | 9050 | MOU | *44:03 | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 30 | 9021 | RSH | *42:01 | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - | - |
| 31 | 9019 | DUCAF | *18:01 | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 32 | 9297 | HAG | *41:02 | - | - | - | + | - | - | - | + | - | - | - | - | - | - | - | - | - |
| 33 | 9098 | MT14B | *40:01 | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 34 | 9104 | DHIF | *38:01 | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 35 | 9302 | SSTO | *44:02 | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 36 | 9024 | KT17 | *15:01 *35:01 | - | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - |
| 37 | 9065 | HHKB | *07:02 | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 38 | 9099 | LZL | *15:01 | - | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - |
| 39 | 9315 | CML | *08:01 *27:05 | - | + | - | - | + | - | - | + | - | - | - | - | - | - | - | - | + |
| 40 | 9134 | WHONP199 | *13:02 *46:01 | - | - | + | + | - | - | - | + | - | - | + | - | + | - | - | - | - |
| 41 | 9055 | H0301 | *14:02 | - | - | - | + | - | + | - | - | - | - | - | - | - | - | - | - | - |
| 42 | 9066 | TAB089 | *46:01 | - | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - |
| 43 | 9076 | T7526 | *46:01 | - | - | - | - | - | - | - | + | - | - | - | - | + | - | - | - | - |
| 44 | 9057 | TEM | *38:01 | - | - | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - |
| 45 | 9239 | SHJO | *42:01 *50:01 | - | - | - | + | - | - | - | + | - | - | - | - | - | - | - | - | - |
| 46 | 9013 | SCHU | *07:02 | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 47 | 9045 | TUBO | *51:01 | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | - |
| 48 | 9303 | TER-ND | *35:01 *44:03 | - | - | - | + | - | - | - | - | - | - | - | - | + | - | - | - | - |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

| | | | | Well | | | | | | | | | | | | | | | | |
|----------------|------|------------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | |
| | | | | Prod. No.: | 201318717 | 201321818 | 201318719 | 201318720 | 201318721 | 201320822 | 201320823 | 201320824 | 201318725 | 201318726 | 201318727 | 201318728 | 201326429 | 201318730 | 201318731 | 201318732 |
| IHCW cell line | | B* | | | | | | | | | | | | | | | | | | |
| 1 | 9001 | SA | *07:02 | | - | - | - | - | - | - | - | + | - | - | - | + | - | - | - | - |
| 2 | 9280 | LK707 | *52:01 | *73:01 | - | - | - | - | - | - | - | + | - | - | - | + | - | - | - | - |
| 3 | 9011 | E4181324 | *52:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 9275 | GU373 | *15:10 | *53:01 | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | 9009 | KAS011 | *37:01 | | + | - | - | + | - | - | - | - | - | - | - | - | + | - | - | - |
| 6 | 9353 | SM | *39:01 | *51:01 | - | - | - | - | + | - | + | + | - | - | - | - | - | + | - | - |
| 7 | 9020 | QBL | *18:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | 9025 | DEU | *35:01 | | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | 9026 | YAR | *38:01 | | - | - | - | - | + | + | + | - | - | - | - | - | - | - | - | - |
| 10 | 9107 | LKT3 | *54:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + |
| 11 | 9051 | PITOUT | *44:03 | | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 12 | 9052 | DBB | *57:01 | | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | 9004 | JESTHOM | *27:05 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + |
| 14 | 9071 | OLGA | *15:01 | *15:20 | + | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | 9075 | DKB | *40:01 | | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - |
| 16 | 9037 | SWEIG007 | *40:02 | | - | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - |
| 17 | 9282 | CTM3953540 | *08:01 | *55:01 | - | - | - | - | - | - | - | + | - | - | + | + | - | - | - | + |
| 18 | 9257 | 32367 | *14:01 | *56:01 | - | - | - | - | - | - | + | + | - | - | - | + | - | - | - | + |
| 19 | 9038 | BM16 | *18:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | 9059 | SLE005 | *40:01 | | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - |
| 21 | 9064 | AMALA | *15:01 | | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 22 | 9056 | KOSE | *35:03 | | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 23 | 9124 | IHL | *40:02 | *56:02 | - | - | - | - | - | - | - | - | - | + | - | + | - | - | - | + |
| 24 | 9035 | JBUSH | *38:01 | | - | - | - | - | + | + | + | - | - | - | - | - | - | - | - | - |
| 25 | 9049 | IBW9 | *14:02 | | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - |
| 26 | 9285 | WT49 | *58:01 | | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 27 | 9191 | CH1007 | *07:05 | *51:01 | - | - | - | - | - | - | - | + | - | - | - | + | - | + | - | - |
| 28 | 9320 | BEL5GB | *44:02 | *44:03 | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 29 | 9050 | MOU | *44:03 | | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 30 | 9021 | RSH | *42:01 | | - | - | - | - | - | - | - | + | - | - | + | + | - | - | - | - |
| 31 | 9019 | DUCAF | *18:01 | | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32 | 9297 | HAG | *41:02 | | - | - | - | - | - | - | - | + | - | - | + | - | - | - | - | - |
| 33 | 9098 | MT14B | *40:01 | | - | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - |
| 34 | 9104 | DHIF | *38:01 | | - | - | - | - | + | + | + | - | - | - | - | - | - | - | - | - |
| 35 | 9302 | SSTO | *44:02 | | + | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - |
| 36 | 9024 | KT17 | *15:01 | *35:01 | + | + | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 37 | 9065 | HHKB | *07:02 | | - | - | - | - | - | - | - | + | - | - | - | + | - | - | - | - |
| 38 | 9099 | LZL | *15:01 | | - | - | + | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 39 | 9315 | CML | *08:01 | *27:05 | - | - | - | - | - | - | - | + | - | - | + | + | - | - | - | + |
| 40 | 9134 | WHONP199 | *13:02 | *46:01 | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 41 | 9055 | H0301 | *14:02 | | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - |
| 42 | 9066 | TAB089 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 43 | 9076 | T7526 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | + | - |
| 44 | 9057 | TEM | *38:01 | | - | - | - | - | + | + | + | - | - | - | - | - | - | - | - | - |
| 45 | 9239 | SHJO | *42:01 | *50:01 | - | - | - | - | - | - | - | + | - | - | + | + | - | - | - | - |
| 46 | 9013 | SCHU | *07:02 | | - | - | - | - | - | - | - | + | - | - | - | + | - | - | - | - |
| 47 | 9045 | TUBO | *51:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | - |
| 48 | 9303 | TER-ND | *35:01 | *44:03 | + | + | - | - | - | - | - | - | - | - | - | - | + | - | - | - |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **89S**

Lot-specific information

| CELL LINE VALIDATION SHEET | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|----------------|------------|--------|--------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| HLA-B low resolution SSP kit | | | | | | | | | | | | | | | | | | | | |
| | | | | | Well | | | | | | | | | | | | | | | |
| | | | | | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | |
| | | | | | Prod. No.: | 201318733 | 201318734 | 201318735 | 201318736 | 201318737 | 201318738 | 201318739 | 201318740 | 201318741 | 201321842 | 201318743 | 201318744 | 201318745 | 201318746 | 201318747 |
| | IHWC cell line | | B* | | | | | | | | | | | | | | | | | |
| 1 | 9001 | SA | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 2 | 9280 | LK707 | *52:01 | *73:01 | - | - | + | + | - | + | - | - | - | - | - | - | + | + | + | + |
| 3 | 9011 | E4181324 | *52:01 | | - | - | + | + | - | + | - | - | - | - | - | - | - | - | + | - |
| 4 | 9275 | GU373 | *15:10 | *53:01 | - | - | - | + | - | - | - | - | - | - | - | + | - | + | + | + |
| 5 | 9009 | KAS011 | *37:01 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - |
| 6 | 9353 | SM | *39:01 | *51:01 | - | - | + | + | - | - | - | - | - | - | - | + | - | + | + | + |
| 7 | 9020 | QBL | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + |
| 8 | 9025 | DEU | *35:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + |
| 9 | 9026 | YAR | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 10 | 9107 | LKT3 | *54:01 | | - | - | - | - | - | - | + | + | - | - | - | - | - | - | - | + |
| 11 | 9051 | PITOUT | *44:03 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - |
| 12 | 9052 | DBB | *57:01 | | - | - | - | + | - | - | - | - | - | + | - | - | - | - | + | - |
| 13 | 9004 | JESTHOM | *27:05 | | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | - |
| 14 | 9071 | OLGA | *15:01 | *15:20 | - | - | - | - | - | + | - | - | - | - | - | - | + | - | - | + |
| 15 | 9075 | DKB | *40:01 | | - | - | - | - | + | + | - | - | - | - | - | - | - | - | - | + |
| 16 | 9037 | SWEIG007 | *40:02 | | - | - | - | - | + | + | - | - | - | - | - | - | - | - | - | + |
| 17 | 9282 | CTM3953540 | *08:01 | *55:01 | - | - | + | - | - | - | - | + | - | - | - | - | - | - | - | + |
| 18 | 9257 | 32367 | *14:01 | *56:01 | - | - | - | - | - | - | - | - | + | - | - | - | - | - | - | + |
| 19 | 9038 | BM16 | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + |
| 20 | 9059 | SLE005 | *40:01 | | - | - | - | - | + | + | - | - | - | - | - | - | - | - | - | + |
| 21 | 9064 | AMALA | *15:01 | | - | - | - | - | - | + | - | - | - | - | - | - | - | + | - | + |
| 22 | 9056 | KOSE | *35:03 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + |
| 23 | 9124 | IHL | *40:02 | *56:02 | - | - | - | - | + | + | - | - | + | - | + | - | - | - | - | + |
| 24 | 9035 | JBUSH | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 25 | 9049 | IBW9 | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 26 | 9285 | WT49 | *58:01 | | - | - | - | + | - | - | - | - | - | - | + | - | - | - | + | - |
| 27 | 9191 | CH1007 | *07:05 | *51:01 | - | - | + | + | - | - | - | - | - | - | - | + | - | - | + | + |
| 28 | 9320 | BEL5GB | *44:02 | *44:03 | - | - | - | - | - | + | + | - | - | - | - | - | - | - | - | + |
| 29 | 9050 | MOU | *44:03 | | - | - | - | - | - | + | - | - | - | + | - | - | - | - | + | - |
| 30 | 9021 | RSH | *42:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 31 | 9019 | DUCAF | *18:01 | | - | - | - | - | - | - | - | - | - | - | - | + | - | - | - | + |
| 32 | 9297 | HAG | *41:02 | | - | - | - | - | + | + | - | - | - | - | - | - | - | - | - | + |
| 33 | 9098 | MT14B | *40:01 | | - | - | - | - | + | + | - | - | - | - | - | - | - | - | - | + |
| 34 | 9104 | DHIF | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 35 | 9302 | SSTO | *44:02 | | - | - | - | - | - | + | + | - | - | - | - | - | - | - | + | - |
| 36 | 9024 | KT17 | *15:01 | *35:01 | - | - | - | - | - | + | - | - | - | - | - | + | + | - | - | + |
| 37 | 9065 | HHKB | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 38 | 9099 | LZL | *15:01 | | - | - | - | - | - | + | - | - | - | - | - | - | + | - | - | + |
| 39 | 9315 | CML | *08:01 | *27:05 | - | - | - | - | - | + | - | - | - | - | - | - | - | - | + | + |
| 40 | 9134 | WHONP199 | *13:02 | *46:01 | - | - | - | - | - | + | - | - | - | - | - | - | + | + | + | + |
| 41 | 9055 | H0301 | *14:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 42 | 9066 | TAB089 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | + |
| 43 | 9076 | T7526 | *46:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - | + |
| 44 | 9057 | TEM | *38:01 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + | - |
| 45 | 9239 | SHJO | *42:01 | *50:01 | - | - | + | - | + | + | - | - | + | - | - | - | - | - | - | + |
| 46 | 9013 | SCHU | *07:02 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | + |
| 47 | 9045 | TUBO | *51:01 | | - | - | + | + | - | - | - | - | - | - | - | + | - | - | + | - |
| 48 | 9303 | TER-ND | *35:01 | *44:03 | - | - | - | - | - | + | - | - | - | - | - | + | - | - | + | + |

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **89S**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP[®] HLA-B low resolution screening SSP

Product number: 101.503-48/12 – including *Taq* pol.
 101.503-48u/12u – without *Taq* pol.

Lot number: 89S

Expiry date: 2016-April-01

Number of tests: 48 tests – Product No. 101.503-48/48u
 12 tests – Product No. 101.503-12/12u

Number of wells per test: 47 + 1

Well specifications:

| Well No. | Production No. | Well No. | Production No. | Well No. | Production No. |
|----------|----------------|----------|----------------|----------|----------------|
| 1 | 2013-187-01 | 17 | 2013-187-17 | 33 | 2013-187-33 |
| 2 | 2013-187-02 | 18 | 2013-218-18 | 34 | 2013-187-34 |
| 3 | 2013-218-03 | 19 | 2013-187-19 | 35 | 2013-187-35 |
| 4 | 2013-187-04 | 20 | 2013-187-20 | 36 | 2013-187-36 |
| 5 | 2013-187-05 | 21 | 2013-187-21 | 37 | 2013-187-37 |
| 6 | 2013-208-06 | 22 | 2013-208-22 | 38 | 2013-187-38 |
| 7 | 2013-187-07 | 23 | 2013-208-23 | 39 | 2013-187-39 |
| 8 | 2013-221-08 | 24 | 2013-208-24 | 40 | 2013-187-40 |
| | | | | | |
| 9 | 2013-264-09 | 25 | 2013-187-25 | 41 | 2013-187-41 |
| 10 | 2013-187-10 | 26 | 2013-187-26 | 42 | 2013-218-42 |
| 11 | 2013-264-11 | 27 | 2013-187-27 | 43 | 2013-187-43 |
| 12 | 2013-187-12 | 28 | 2013-187-28 | 44 | 2013-187-44 |
| 13 | 2013-187-13 | 29 | 2013-264-29 | 45 | 2013-187-45 |
| 14 | 2013-187-14 | 30 | 2013-187-30 | 46 | 2013-187-46 |
| 15 | 2013-187-15 | 31 | 2013-187-31 | 47 | 2013-187-47 |
| 16 | 2013-187-16 | 32 | 2013-187-32 | | |

The specificity of each primer solution of the kit has been tested against 48 well characterized IHWC cell line DNAs.

Additional 5'-primers and 3'-primers in primer solutions 3, 6, 14, 19, 29, 31 and 40 were tested by separately adding one additional 3'-primer, respectively one additional 5'-primer. Additional 3'-primers in primer solutions 2, 8, 11, 13, 15 and 18 were tested by separately adding one additional 5'-primer. Additional 5'-primers in primer solutions 1, 21 and 25 were tested by separately adding one additional 3'-primer.

In primer mixes 31, 42 and 43 one 5'-primer was not possible to test, and in primer mixes 29, 38 and 42 one or two 3'-primer was not possible to test.

The negative control primer pairs, **Production No. 2013-271-01**, can detect contamination with PCR products diluted 10^{-7} .

101.503-48/12 – including *Taq* pol., IFU-01
101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

Results: No false positive or false negative amplifications were obtained.

Date of approval: 2013-November-08

Approved by:

Production Quality Control

101.503-48/12 – including *Taq* pol., IFU-01
101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **89S**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B low resolution screening

Product number: 101.503-48/48u, -12/12u

Lot number: 89S

Intended use: HLA-B low resolution screening histocompatibility testing

Manufacturer: *Olerup* SSP AB
Franzengatan 5
SE-112 51 Stockholm, Sweden
Phone: +46-8-717 88 27
Fax: +46-8-717 88 18

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2012, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at *Olerup* SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

Notified Body: Lloyd's Register Quality Assurance Limited, Hiramford, Middlemarch Office Village, Siskin Drive, Coventry CV3 4FJ, United Kingdom. (Notified Body number: 0088.)

Stockholm, Sweden
2013-November-08

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.503-48/12 – including *Taq* pol., IFU-01
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Lot No.: **89S**

Lot-specific information

101.503-48/12 – including *Taq* pol., IFU-01
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Lot No.: **89S**

Lot-specific information

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E-mail: info-ssp@olerup.com

Web page: <http://www.olerup-ssp.com>

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Fax: +43-1-710 15 00 10

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Web page: <http://www.olerup.com>

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Fax: 610-344-7989

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Web page: <http://www.olerup.com>

For information on *Olerup* SSP distributors worldwide, contact **Olerup GmbH**.