

101.501.48/12 – including *Taq* polymerase, IFU-01
 101.501.48u/12u – without *Taq* polymerase, IFU-02

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

Lot No.: 01R

Lot-specific information

Olerup SSP® HLA-B low resolution

Product number:	101.501-48/12 – including <i>Taq</i> pol. 101.501-48u/12u – without <i>Taq</i> pol.
Lot number:	01R
Expiry date:	2015-January-01
Number of tests:	48 tests – Product No. 101.501-48/48u 12 tests – Product No. 101.501-12/12u
Number of wells per test:	63 + 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. 01R.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP®
HLA-B LOW RESOLUTION LOT (03N)**

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

The HLA-B low resolution specificity and interpretation tables have been updated for the HLA-B alleles reported since the previous *Olerup SSP® HLA-B low resolution lot (Lot No. 03N)* was made.

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

Well	5'-primer	3'-primer	rationale
11	-	Added	3'-primer added for improved yield of HLA-specific PCR product.
26	Added	Added	Primer pair added for the B*58:36 allele.
31	-	-	Exchanged positive control primer pair.
54	Added	-	5'-primer added for improved resolution of B*18/B*53 heterozygotes.
59	Added	-	5'-primer added for improved resolution of B*51:01:02/ B*53 heterozygotes.
63	Added	-	5'-primer added for the B*52:01:11 allele.

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Changes in revision R01 compared to R00:

1. Primer mix 19 does not amplify the B*15:101 allele. This has been corrected in the Specificity and Interpretation tables.

Changes in revision R02 compared to R01:

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

Changes in revision R03 compared to R02:

1. In primer mixes 56 and 57, the specific PCR product may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low primer mixes. A foot note has been added to the Specificity Table.

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Well **64** 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 5'-CAC ^{3'}	340 5'-Agg ^{3'}	440 5'-TTA ^{3'}	45 5'-Tgg ^{3'}	45 5'-Tgg ^{3'}	43 5'-Tgg ^{3'}
3'-primer²	231 5'-TgC ^{3'}	2nd 5'-AAA ^{3'}	507 5'-TTg ^{3'}	59 5'-CTC ^{3'}	58 5'-ggC ^{3'}	57 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 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 64 PCR reactions in a 64 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
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Wells 1 to 63 – HLA-B low resolution primers.

Well 64 – Negative Control.

The 64 well cut PCR plate is marked with ‘HLA-B low’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘01R’.

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.

INTERPRETATION

Only HLA-B alleles will be amplified by the HLA-B low resolution typing kit, except that primer mix 1 will amplify the C*02:23 and C*04:77 alleles, primer mix 3 will amplify the C*03:05, C*03:25, C*03:27 and C*03:143 alleles, primer mix 4 will amplify the C*01:30 allele, primer mix 6 will amplify the A*23:31, A*24:106, C*07:231 and C*16:10 alleles, primer mix 7 will amplify the C*07:02:30 and C*08:16:02 alleles, primer mix 8 will amplify the C*07:46 allele, primer mix 13 will amplify the A*24:174 allele, primer mix 17 will amplify the C*03:102 allele, primer mix 21 will amplify the C*15:51 allele, primer mix 25 will amplify the C*03:129 allele, primer mix 29 will amplify the C*15:25 allele, primer mix 31 will amplify the C*15:39 allele, primer mix 40 will amplify the C*15:02:04 allele, primer mix 41 will amplify the C*03:12, C*03:19 and C*03:102 alleles, primer mix 42 will amplify the C*06:72 allele, primer mix 43 will weakly amplify the C*02:06 and C*02:47 alleles, primer mix 45 will amplify the A*26:68, A*68:56, C*02:56, C*06:20 and C*12:50 alleles, primer mix 50 will amplify the C*08:51 allele, primer mix 52 will amplify the A*24:146 allele, primer mix 53 will amplify the C*05:30 allele, primer mix 54 will

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amplify the A*24:02:37 and C*15:25 alleles and primer mix 57 will amplify the C*07:46 allele.

Thus, the interpretation of HLA-B low resolution typings is only influenced by these seven HLA-A alleles and 27 HLA-C alleles, and not by other HLA class I alleles.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B alleles recognized by the HLA Nomenclature Committee in April 2012¹ will be amplified by the primers in the HLA-B low resolution 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 2012-April-12, release 3.8.0, 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,	40:01, 40:07, 40:10, 40:12, 40:14, 40:15, 40:16
B*40EJD ^a	40:02, 40:03, 40:04, 40:06, 40:08, 40:09, 40:11, 40:13,
B*40EJB ^b	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*55:23 and 55:32 and the B*56:18 and 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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Lot-specific information
SPECIFICITY TABLE

HLA-B low resolution SSP typing

Specificities and sizes of the PCR products of the 63+1 primer mixes used for HLA-B low resolution 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, 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, 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-08:88, 15:142, 15:180, 44:49, 51:68
3	140 bp, 235 bp	1070 bp	7, 8, 13, 15, 35, 4005, 44, 49, 61, 62, 77	*07:20, 07:24, 07:60, 07:100, 07:131, 08:21, 08:25, 13:01:01-13:04, 13:06-13:08Q, 13:10-13:23, 13:25-13:38, 13:40-13:54, 15:07:01-15:07:02, 15:36 ^w , 15:45, 15:55, 15:68, 15:89 ^w , 15:126, 15:207, 35:05:01-35:05:02, 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, 40:05, 40:71, 40:174, 44:08 ^w , 44:54, 44:57 ^w , 44:60, 44:106, 44:110, 44:135, 46:12, 51:64, 53:14, 55:51, 58:18, C*03:05, C*03:25, C*03:27, C*03:143
4 ⁷	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, 13:25-13:54, 14:01:01-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:32, 15:46, 15:53, 15:106, 15:212, 18:44, 35:46-35:47, 35:63, 35:154, 40:01:01-40:01:24, 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, 40:163-40:164, 40:166, 40:168, 40:171-40:172, 40:175, 40:178-40:179, 40:182-40:183, 40:186-40:188, 40:191-40:193, 41:01-41:20, 44:02:01:01-44:03:06, 44:03:08-44:05:03, 44:09-44:39,

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				44:41:01-44:43:02, 44:45-44:56N, 44:58N-44:80, 44:82, 44:84-44:102, 44:104-44:110, 44:112-44:129, 44:132-44:133, 44:135-44:144, 44:146-44:152, 45:01-45:14, 47:01:01:01-47:08, 49:01:01-49:02, 49:04-49:20, 50:01:01-50:02, 50:04-50:06, 50:08- 50:16, 57:45, 57:51, C*01:30
5⁸	185 bp, 235 bp	800 bp	7, 16, 17, 27, 2708, 37, 38, 3901, 3902, 39, 64, 67	*07:02:32, 14:01:01-14:01:02, 14:07N-14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 27:01-27:05:15, 27:05:17-27:06, 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- 27:89, 37:02, 38:01:01-38:02:02, 38:03, 38:07-38:24, 38:26-38:32, 38:34N-38:40, 39:01:01:01- 39:01:01:02L, 39:01:03-39:01:08, 39:01:10-39:02:01, 39:03, 39:05:01-39:09, 39:11, 39:14-39:15, 39:18, 39:19:02, 39:22, 39:24:01-39:39:01, 39:40N-39:44, 39:46-39:48, 39:50-39:62, 39:64-39:71, 39:73, 47:04- 47:05, 48:21, 48:26, 67:01:01, 67:03
6	190 bp	800 bp	14, 35, 38, 39, 65	*07:28, 08:87, 14:02:01-14:02:02, 14:02:04-14:02:05, 14:03-14:06:02, 14:09, 14:11, 14:13, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29-14:31, 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, 15:01:06-15:02:05, 15:03:03- 15:08, 15:10:02-15:11:03, 15:11:05-15:15, 15:17:01:01-15:17:02, 15:19-15:21, 15:24-15:28, 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, 15:227-15:228, 15:230-15:234, 15:236- 15:237, 15:239-15:241, 15:244, 46:01:01-46:30, C*07:02:30, C*08:16:02
8	165 bp, 220 bp, 330 bp	1070 bp	5, 8, 12, 21, 22, 37, 41, 42, 44, 45, 48, 51, 56, 57, 60,	*08:01:01-08:05, 08:08N-08:12:03, 08:15-08:19N, 08:21-08:24, 08:26-08:27, 08:29-08:36, 08:38-08:39, 08:41-08:48, 08:50-08:54, 08:56-08:69, 08:71-08:73, 08:75-08:76, 08:78, 08:80-08:86N, 08:88, 13:46, 15:03:01-15:03:03, 15:09-15:10:02,

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9	390 bp	1070 bp	63		*15:16:01-15:17:02, 15:67, 15:95, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230
10	180 bp	800 bp	13, 22, 55, 60		*07:78, 13:01:01-13:02:12, 13:07N-13:09, 13:11, 13:14-13:20, 13:22:01-13:23, 13:25, 13:27-13:34, 13:36-13:45, 13:47, 13:49N-13:50, 13:52, 13:54, 40:48, 45:10, 49:07, 54:26, 55:09, 55:22, 55:24
11⁶	105 bp, 195 bp	1070 bp	8, 12, 27, 38, 39, 3902, 40, 44, 45, 48, 60, 70, 71, 72, 82		*07:27, 07:50, 08:04, 08:17, 08:54, 15:03:01- 15:03:03, 15:47:01-15:47:02, 15:49, 15:54, 15:61- 15:62, 15:64, 15:68-15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242, 18:37, 27:18, 27:29, 37:28, 38:03, 39:02:01-39:02:02, 39:08, 39:13:01-39:13:02, 39:23, 39:39:01-39:39:02, 39:49, 40:12, 40:46, 40:93, 42:11, 44:10, 44:15, 44:18, 44:40, 44:44, 44:130, 44:140, 45:01, 45:05- 45:07, 45:11-45:14, 48:01:01-48:05, 48:07-48:27, 49:20, 50:02, 52:16, 55:18, 82:01-82:03
12	280 bp	1070 bp	5, 7, 8, 13, 15, 16, 17, 18, 22, 35, 40, 42, 44, 46, 48, 49, 51, 53, 55, 56, 57, 58, 60, 61, 62, 63, 70, 71, 72, 75, 76, 77, 78		*07:09, 07:11, 07:17, 08:28, 08:35, 08:37, 13:04, 13:10, 13:26, 15:01:01:01-15:01:04, 15:01:06-15:08, 15:11:01-15:16:03, 15:18:01-15:21, 15:23-15:29, 15:31-15:36, 15:38:01-15:40, 15:43-15:44, 15:46- 15:47:02, 15:49-15:57, 15:60-15:62, 15:64-15:72, 15:74-15:76, 15:78:01-15:82, 15:84-15:85, 15:87- 15:89, 15:91-15:98, 15:101-15:129, 15:131-15:132, 15:134-15:136, 15:138-15:149N, 15:151-15:161, 15:163-15:167, 15:169-15:176, 15:178-15:187, 15:189-15:195, 15:197-15:207, 15:209N-15:215, 15:217-15:223, 15:225-15:228, 15:231-15:232, 15:234-15:242, 15:244, 18:01:01-18:15, 18:17N- 18:25, 18:27-18:40, 18:42-18:60, 18:62-18:71, 27:41, 35:01:01-35:01:31, 35:05:01-35:05:02,

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47	350 bp	1070 bp	Bw6	-
48	285 bp	800 bp	7, 703, 8, 35, 40, 41, 42, 48, 60, 61, 81	*07:02:01-07:06, 07:08-07:18:02, 07:20-07:32, 07:34- 07:39, 07:41-07:52, 07:54-07:59, 07:61-07:76, 07:79- 07:83, 07:85-07:99, 07:101-07:121, 07:123-07:138, 07:140-07:154, 08:01:01-08:05, 08:07-08:08N, 08:10-08:11, 08:13-08:15, 08:17-08:83, 08:85-08:88, 35:66, 35:87, 37:07, 40:15-40:16, 40:30-40:32, 40:34, 40:45, 40:59, 40:80, 40:98, 40:137, 40:160, 41:02:01-41:02:04, 41:04, 41:10-41:11, 41:13, 41:18- 41:19, 42:01:01-42:02, 42:05:01-42:07, 42:09-42:13, 42:15-42:16, 44:150, 48:01:01-48:01:03, 48:05- 48:12, 48:14-48:20, 48:22, 48:27, 53:15, 81:01-81:05

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50	260 bp	800 bp	14, 16, 18, 51, 62, 70	*14:06:01-14:06:02, 14:08, 15:37-15:38:02, 15:185, 18:01:01:01-18:01:15, 18:03-18:09, 18:12-18:13, 18:15, 18:17N-18:20, 18:23N-18:26, 18:28-18:34, 18:36-18:38, 18:40-18:43, 18:45-18:55, 18:57, 18:59- 18:68, 18:70-18:71, 39:32, 39:43, 39:48, 40:51, 40:113, 40:163, 51:06:01-51:06:02, 51:45, 51:62, C*08:51
51	390 bp	1070 bp	18, 35, 44, 51, 5102, 5103, 52, 53, 61, 78	*18:07:01-18:07:02, 18:29, 27:23, 35:01:01:01-35:19, 35:21-35:25, 35:27, 35:29:01-35:62, 35:64-35:71, 35:74-35:75, 35:77, 35:79-35:81, 35:83-35:84, 35:86- 35:94, 35:96-35:134N, 35:136-35:185, 35:187- 35:200, 37:21, 40:08, 40:13, 40:68 [?] , 40:106 [?] , 40:162 [?] , 44:06, 51:01:01-51:06:02, 51:08-51:21, 51:23-51:24:04, 51:26-51:46, 51:48-51:127, 51:129- 51:131, 52:06:01-52:06:02, 53:01:01-53:08:02, 53:10-53:16, 53:18-53:27, 78:01:01-78:02:02, 78:04, 78:07
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 58:01:01-58:01:02, 58:01:04-58:02, 58:04-58:26,
 58:28-58:36, 59:01:01:01-59:01:01:02, 59:03-59:05,
 67:01:01-67:02, 78:01:01-78:07, 82:01-82:03

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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 SSP typings.

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

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 inherit 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 typing.

In addition, wells number 4 to 6, 10, 17, 20, 21, 30, 31, 35, 42, 48, 50, 60 and 61 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.

⁴Nucleotide sequence information is available for only exons 2 and 3 of many HLA Class I alleles and for only exon 2 of many HLA Class II alleles and not for other exons or for the introns of these alleles. We assume that unknown sequences in these exons and in the introns are conserved within loci and within allelic groups.

⁵Due to sharing of sequence motifs, primer mix 1 will amplify the C*02:23 and C*04:77 alleles, primer mix 3 will amplify the C*03:05, C*03:25, C*03:27 and C*03:143 alleles, primer mix 4 will amplify the C*01:30 allele, primer mix 6 will amplify the A*23:31, A*24:106, C*07:231 and C*16:10 alleles, primer mix 7 will amplify the C*07:02:30 and C*08:16:02 alleles, primer mix 8 will amplify the C*07:46 allele, primer mix 13 will amplify the A*24:174 allele, primer mix 17 will amplify the C*03:102 allele, primer mix 21 will amplify the C*15:51 allele, primer mix 25 will amplify the C*03:129 allele, primer mix 29 will amplify the C*15:25 allele, primer mix 31 will amplify the C*15:39 allele, primer mix 40 will amplify the C*15:02:04 allele, primer mix 41 will amplify the C*03:12, C*03:19 and C*03:102 alleles, primer mix 42 will amplify the C*06:72 allele, primer mix 43 will weakly amplify the C*02:06 and C*02:47 alleles, primer mix 45 will amplify the A*26:68, A*68:56, C*02:56, C*06:20 and C*12:50 alleles, primer mix 50 will amplify the C*08:51 allele, primer mix 52 will amplify the A*24:146 allele, primer mix 53 will amplify the C*05:30 allele, primer mix 54 will amplify the A*24:02:37 and C*15:25 alleles and primer mix 57 will amplify the C*07:46 allele.

⁶Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

⁷Primer mix 4 may yield less 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.

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

⁹Primer mixes 39 and 61 may give rise to nonspecific amplifications.

¹⁰Primer mixes 1, 15, 19, 20, 26, 42, 45 and 54 may give rise to a primer oligomer artifact.

¹¹The C*17:01 to C*17:04 alleles might be faintly amplified by primer mix 25.

¹²Primer 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 typings.

¹³The Bw4-associated HLA-A specificities A9, A23, A24, A2403, A25 and A32 are not amplified by the primer pair in primer mix 46.

¹⁴In primer mixes 56 and 57, the specific PCR product may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low primer mixes.

¹⁵Primer mix 64 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.

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			INTERPRETATION TABLE HLA-B low resolution SSP																																											
			Amplification patterns of the B*07:02 to B*83:01 alleles																																											
			Well ⁵																																											
Length of spec.	PCR product(s)		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												
Length of int. pos. control ¹			110	215	235	140	265	130	235	185	190	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								
Well No.			800	1070	1070	800	800	800	1070	1070	330	220	165	390	180	195	105	195	105	435	395	105	150	115	80	150	135	400	245	60	210	170	110	395	425	160	180	260	225	195	115	215	270	130	410	90
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	25	26	27	28	29	30	31	32												
HLA-B allele ²	ser. ³																																													
*07:02:01-07:02:31, 07:05:01-07:06, 07:10, 07:13, 07:15, 07:21-07:23, 07:26, 07:29-07:30, 07:35, 07:39, 07:41-07:42, 07:44-07:46, 07:49N, 07:52, 07:55-07:56:02, 07:58-07:59, 07:61-07:64, 07:66-07:67N, 07:70-07:72, 07:74, 07:76, 07:79-07:80, 07:82-07:83, 07:86-07:99, 07:101-07:114, 07:116-07:121, 07:124-07:130, 07:132, 07:135N-07:136, 07:138, 07:140-07:145, 07:147-07:148, 07:150-07:154	B7, Null, -	1																																												
*07:02:32	-	1		5																																										
*07:03, 07:08, 07:16, 07:32, 07:37	B703, -	1																																												
*07:04, 07:25, 07:146	B7, -	1																		14																										
*07:07, 07:77	B7, -	1																																												
*07:09, 07:17	B7	1																		12																										
*07:11	B7	1																	12																											
*07:12, 07:14, 07:18:01-07:18:02, 07:137	B7, -	1																																												
*07:19	-																																													
*07:20, 07:24, 07:131	B7, -	1	3																																											
*07:27	-	1																	11																											
*07:28	-	1		6																																										
*07:31, 07:34, 07:43	B7, B42, -	1																																												
*07:33, 07:40, 07:53, 07:122, 07:139	B7, -																																													
*07:36, 07:81, 07:149	-	1																																												
*07:38	-	1																																												
*07:47	-	1																																												
*07:48, 07:51	-																																													
*07:50	-	1																	11																											
*07:54, 07:123	-	1																																												
*07:57, 07:75	B7, -	1																																												
*07:60	-		3																																											
*07:65	-	1																																												
*07:68:01-07:68:03	-	1																																												
*07:69, 07:85	-	1																																												
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	25	26	27	28	29	30	31	32												

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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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	25	26	27	28	29	30	31	32						
*07:73	-	1															16								24			28											
*07:78	-	1																10								24			28										
*07:84	-	1																								24			28										
*07:100	-			3																						24			28										
*07:115	-	1																								24			28										
*07:133	-	1																								24			28										
*07:134	-	1																							18			24			28								
*08:01:01-08:01:17, 08:05, 08:08N, 08:10, 08:15, 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, 08:56-08:59, 08:61, 08:63-08:64, 08:66-08:69, 08:72N-08:73, 08:75, 08:80- 08:83, 08:86N	B8, -, Null		2																							24			27										
*08:02	B8	2																													27								
*08:03, 08:52, 08:78	B8, -	2																													27								
*08:04	-	2																8	11										24			27							
*08:07, 08:14, 08:74, 08:77	B8, -	2																												24			27						
*08:09, 08:84	B8, -	2																	8										24			27	30						
*08:11	-	2																8											24			27							
*08:12:01-08:12:03, 08:16	B8, -	2																8											24			27							
*08:13, 08:20, 08:70	-	2																8											24										
*08:17, 08:54	-	2																8	11										24			27							
*08:21	-	2	3															8											24			27							
*08:25	-	2	3																											24									
*08:26, 08:50, 08:62, 08:85	-																	8											24			27							
*08:28, 08:37	-	2																	12										24			27							
*08:32	-	2																8											18			24			27				
*08:35	-	2																8	12										24			27							
*08:36	-	2																8																27					
*08:38	-	2																8												24			27						
*08:40	-	2																												24									
*08:49	-	2																												17	20	24	27	29					
*08:55	-	2																												21	24								
*08:60, 08:76	-	2																8													24			27	29				
*08:65	-																	8													23	24		27					
*08:71	-	2																8													24			27					
*08:79	-	1	2																												24								
*08:87	-	2			6													8													16		24	27	29				
*08:88	-	2																8															24			27			
*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	B13, -		3	4														10											17										
*13:02:01-13:02:05, 13:02:07- 13:02:12, 13:08Q, 13:15, 13:18-13:19, 13:27, 13:30, 13:32-13:33, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:47, 13:49N, 13:54	B13, -, Null		3	4														10																					
*13:02:06	B13		3	4													10																26						
*13:03	-		3	4																																			
*13:04	B15, B21		3	4														12																					
*13:06	-		3	4															17																				
*13:07N	Null		3	4													10												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	25	26	27	28	29	30	31	32						

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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*13:09	-				4						10																									
*13:10	-			3	4							12																								
*13:11	-			3	4						10																									
*13:12-13:13	B13, -			3	4														17																	
*13:14	-				3						10																									
*13:16	-			3	4						10																									
*13:21	-			3	4																															
*13:26	-			3	4							12				17										26										
*13:31	-			3	4						10																									
*13:34	-			3	4						10																									
*13:35	-			3	4																															
*13:36	-			3	4						10							17																		
*13:39	-				4						10							17																		
*13:41	-			3	4						10																									
*13:46	-			3	4			8																										30		
*13:48	-			3	4																															
*13:51	-			3	4													17																		
*13:53	-			3	4																															
*14:01-01-14:01:02, 14:12, 14:14, 14:26, 14:32	B64(14), , -				4	5																				23	24									
*14:02:01-14:02:02, 14:02:04, 14:03-14:04, 14:09, 14:11, 14:15-14:18, 14:20, 14:22, 14:25, 14:29, 14:31	B65(14), , B14, -					4	6																			23	24									
*14:02:03, 14:02:06, 14:24, 14:28	B65(14), , -				4																					23	24									
*14:02:05, 14:30	B65(14), , -				4	6																				23										
*14:05	-					6																				23	24									
*14:06:01-14:06:02	B14						6																			23	24									
*14:07N, 14:19	Null, -				4	5																				23	24									
*14:08	-					5																				23	24									
*14:10	-					5												17								23	24							31		
*14:13	-						6																			23	24									
*14:21	-				4																					24		28								
*14:23	-				4	6																				23	24									
*14:27	-				4	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	25	26	27	28	29	30	31	32			

**101.501.48/12 – including *Taq* polymerase, IFU-01
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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	25	26	27	28	29	30	31	32		
*15:01:01:01-15:01:01:02N, 15:01:03, 15:01:06-15:01:16, 15:01:18, 15:01:20-15:01:28, 15:26N-15:27:03, 15:32, 15:34-15:35, 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, 15:129, 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, 15:217, 15:225, 15:227-15:228, 15:231- 15:232, 15:234, 15:244	B62(15) , Null, -							7				12																							
*15:01:02	B62(15)							7				12																							
*15:01:04	B62(15)											12																							
*15:01:17, 15:05:01- 15:05:02, 15:39:01-15:40, 15:65, 15:84, 15:136, 15:155, 15:179, 15:195, 15:199, 15:218Q-15:219, 15:237	B62(15) , -							7				12																							
*15:01:19, 15:28, 15:120, 15:149N	B62(15) , Null, -							7				12																							
*15:02:01-15:02:05, 15:88, 15:112, 15:121, 15:139, 15:170, 15:213-15:214	B75(15) , B15, -							7				12										17	19												
*15:03:01-15:03:02, 15:47:01- 15:47:02, 15:49, 15:61, 15:98, 15:103, 15:123, 15:127, 15:132, 15:151, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242	B72(70) , B70, -								8			11	12																						
*15:03:03	B72(70)							7	8		11	12										19													
*15:04	B62(15)							7			12											19													
*15:06, 15:33, 15:78:01- 15:78:03, 15:107, 15:141	B62(15) , B15, -							7			12											19													
*15:07:01-15:07:02, 15:126	B62(15) , -		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(15) , B62(15) , Null, -								7			12										19													
*15:09	B70								8						14							19													
*15:10:01, 15:90, 15:99, 15:133, 15:229	B71(70) , -								8						14							19													
*15:10:02	B71(70)								7	8					14							19													
*15:11:04	B75(15)														12							19													
*15:12, 15:14, 15:19	B76(15)								7					12	13							19													
*15:13:01-15:13:02	B77(15) , -								7					12	14						17	19													
*15:16:01-15:16:02, 15:67, 15:95	B63(15) , -									9			12		14							19													
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**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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*15:17:01-01-15:17:02, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216	B63(15) , -							7		9					14					19														
*15:18:01-15:18:02, 15:18:04, 15:51-15:52, 15:108, 15:114, 15:119, 15:134, 15:153, 15:176, 15:197-15:198, 15:200, 15:221, 15:226N, 15:238	B71(70) , B70, B15, -, Null								8			12		14					19															
*15:18:03	B71(70)								8				12		14					19														
*15:20	B62(15)							7				12					17		19						26									
*15:21, 15:44	B75(15) , -								7			12		14			17		19															
*15:23, 15:115	-								8			12		14					19															
*15:24, 15:87, 15:157	B62(15) , -								7			12		14					19															
*15:25:01-15:25:03, 15:204, 15:240	B62(15) , -								7			12					17		19															
*15:29	B15								8			12								19														
*15:30, 15:58, 15:63	B62(15) , -								7										19															
*15:31	B75(15)								7			12								19														
*15:36	-	w							7			12						17		19														
*15:37	B70								8				14						19															
*15:38:01-15:38:02	-								7			12							19															
*15:42	-								7										19															
*15:43	-								7			12							19															
*15:45	B62(15)	3							7										19															
*15:46	B72(70)	4							7	8		12							19															
*15:48	B62(15)								7										19															
*15:53, 15:212	-		4						8			12							19															
*15:54	-								8		11	12							19															
*15:55	B15	3							7			12							19															
*15:57	-								7			12							19													w		
*15:62	-								8		11	12						17		19														
*15:64	-								8		11	12							19															
*15:66	-								7			12			14				19															
*15:68	B35	3								11	12																							
*15:69	-								8		11	12							19		21													
*15:72	-								8		12		14						19															
*15:73	B62(15)								7										19															
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*15:76	-								7		12								19													28		
*15:77	-								6	7									17		19													
*15:80	B70									8		12		14		17		19																
*15:83	-								7	8									19													30		
*15:85	-								7		12							17		19												26		
*15:86	-								7										19															
*15:89	-	w							7		12							17		19														
*15:91, 15:131	-									8		11	12	13						19														
*15:93	B71(70)									8		12		14						19														
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*15:106	-									4	7	8		12					17		19													
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*15:124	-									8		12		14					19													25		
*15:128, 15:211	-									7		12							19															
*15:135	-									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	25	26	27	28	29	30	31	32	

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 01R

Lot-specific information

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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*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																									
*15:150, 15:188	-							7													19																									
*15:154, 15:165	-							7					12					17		19																										
*15:156	-							8			11	12									19																									
*15:161	-							8			12	13	14								19																									
*15:180	-	2										12																																		
*15:185	-							7				12									19																									
*15:186	-							8			12	14							19		21																									
*15:189	-					6	7				12	14									19																									
*15:194	-						7				12								17		19												26													
*15:202, 15:239	-						7				12									18	19																									
*15:207	-	3					7				12										19																									
*15:222	-							9			12	14									19																									
*15:223	-						7				12								17		19																									
*15:224	-						7													19																										
*15:230	-	1					7	9					14								19																									
*15:233	-					6	7														19																									
*15:236	-						7				12																																			
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*15:243	-						8						14							19																										
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*18:01:04, 18:20, 18:40	B18, -												12	15	18																															
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*18:19	-												12	15	18																															
*18:21	-												12	15	18																															
*18:22, 18:69	-												12	15	17	18																										31				
*18:26, 18:41	-													15	18																															
*18:29	-												12																																	
*18:33	-												12	15	18																															
*18:37	-												11	12	15																															
*18:44	-	4											12	15	18																															
*18:48	-												12	15																														26		
*18:49	-												12	15																																
*18:54	-												12	13	15																													20		
*18:56	-												12	13	15																															
*18:61	-													15	18																															
*18:66	-												12	15																																
*18:67	-												12	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	25	26	27	28	29	30	31	32													

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 01R

Lot-specific information

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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*27:02:01-27:02:02, 27:53, 27:57, 27:65N, 27:83	B27, Null, -						5										16											28			32		
*27:03-27:05:15, 27:05:17- 27:06, 27:09-27:10, 27:13, 27:17, 27:20, 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	B27, Null, -																16										28			32			
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*27:07:01-27:07:02, 27:11, 27:32, 27:34, 27:43	B27, -																16										28			32			
*27:08, 27:26, 27:40, 27:42, 27:44, 27:89	B2708, -					5											16										28			32			
*27:12	B27					5											16																
*27:14, 27:81	B27, -																16										24	28		32			
*27:15, 27:28, 27:71	-																16										28			32			
*27:16, 27:39, 27:59N	Null, -					5											16																
*27:18	-					5										11																	
*27:19	B27																16	17									28			32			
*27:23	-					5											16																
*27:24	-																16										28			32			
*27:25	-																16										28			32			
*27:27	-					5											16										28			32			
*27:29	B27					5										11											16						
*27:30	B27																16	17									28			32			
*27:33	-																16										28			32			
*27:41	-					5										12											28			32			
*27:52	-					5											16										28			32			
*27:62	-																16										28			32			
*27:67	-					5											16										28			32			
*27:75	-					5											16										28			32			
*27:77	-					5											16																
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*35:01:10	B35																12		17	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	25	26	27	28	29	30	31	32

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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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	25	26	27	28	29	30	31	32	
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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,																																		
35:83-35:84, 35:98, 35:106,	B35,																																	
35:128-35:129N, 35:136,	Null, -																																	
35:149-35:150, 35:152-																																		
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35:184, 35:193, 35:195																																		
*35:03:03	B35																																	
*35:04:02	B35																																	
*35:05:01-35:05:02, 35:51,	B35, -																																	
35:58, 35:89, 35:97																																		
*35:08:05	-																																	
*35:09:01-35:09:03, 35:18,	B35, -																																	
35:88																																		
*35:10, 35:69, 35:80	B35, -																																	
*35:13	B35																																	
*35:14:01-35:14:02, 35:62	B35, -																																	
*35:16	B35																																	
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*35:19	B35																																	
*35:20:01-35:20:02	B35																																	
*35:21, 35:24:01-35:24:02,	-																																31	
35:188, 35:190																																		
*35:22, 35:199	-																																	
*35:25, 35:49	B35, -																																	
*35:26	-																																	
*35:27	B35																																	
*35:28	-																																	
*35:31	-																																	
*35:32:01-35:32:02, 35:37,	B35, -																																	
35:68:01-35:68:02, 35:99,																																		
35:119																																		
*35:35	B35																																	
*35:38	-																																29	
*35:42:02	-																																	
*35:43, 35:67, 35:79, 35:86,	B35, -																																	
35:102, 35:117																																		
*35:44	B35																																	
*35:45, 35:71	-																																29	
*35:46	B35																																	
*35:47	-																																	
*35:53N, 35:64, 35:118,	Null, -																																	
35:174																																		
*35:56	-																																	
*35:60	B35																																	
*35:63	-																																	
*35:66	-																																	
*35:72	-																																	
*35:75, 35:127, 35:151	-																																	
*35:76	B35, 22																																28	32
*35:78, 35:82	-																																	
*35:81, 35:96, 35:109,	-																																	31
35:157																																		
*35:85	-																																	
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**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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*35:87	-								8									18									27											
*35:95	-																		17	18																		
*35:114	-			3									12						18																			
*35:115	-												12					17	18									29										
*35:131	-												12					17	18																			
*35:135	-												12						18																			
*35:154	-							4											17																			
*35:163	-																		17	18																		
*35:164	-			3															17	18																		
*35:169	-																		17	18									29									
*35:185	-												12						18																			
*35:186	-												12					17	18									28		32								
*35:191	-												12					17	18																			
*35:198	-																		17																			
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*37:01:08, 37:09	B37, -												13						20																			
*37:02	-			5									13						20																			
*37:04:01-37:04:02	B37, -												13					17		20								29	31									
*37:05	-												13					17		20									29									
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*37:07	-	1											13						20																			
*37:08	B37												13					17		20									29									
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*37:11	-																17	18	20										29									
*37:12	-			8									13						20										29									
*37:14	-																	17		20									29									
*37:21	-												13					17		20									29									
*37:28	-												11		13			17		20									29									
*38:01:01-38:02:02, 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, 38:38-38:40	B38(16) , B16, Null, -					5																																
*38:02:03	-																		21	23																		
*38:03	B16			5									11						21	22																		
*38:04, 38:25	-																		21	23																		
*38:05, 38:33	B38(16) , -			6															21	22	23																	
*38:06	-																		21																			
*38:07	-			5															21																			
*38:08	-			5															21	22	23																	
*38:10, 38:36-38:37	-			5															22	23																		
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*38:22	-			5														16			22	23																
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*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	25	26	27	28	29	30	31	32					

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 01R

Lot-specific information

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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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	25	26	27	28	29	30	31	32
*39:01:01:39:01:01:02L, 39:01:03:39:01:05, 39:01:07- 39:01:08, 39:01:10-39:01:12, 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, 39:41, 39:44, 39:46, 39:51-39:57, 39:59-39:62, 39:64-39:67, 39:70-39:71, 39:73	B3901, Low B39, B39(16) ,					5																21	23	24									
*39:01:06, 39:38Q, 39:40N	B3901, ,					5																21	23	24									
*39:01:09, 39:12, 39:45, 39:72	B3901, B39(16) ,																				21	23	24										
*39:02:01, 39:08	B3902, B39(16)					5				11											21	23	24										
*39:02:02, 39:13:01- 39:13:02, 39:23, 39:49	B3902, B39(16) ,									11											21	23	24										
*39:04	B39(16)					6															21	23	24										
*39:07	-					5				12											21	23	24										
*39:10:01, 39:16, 39:20	B39(16) ,																				21	23	24										
*39:10:02	-																				21	23	24										
*39:17	-																				21	23	24										
*39:18	-					5															21	23	24										
*39:19:01	B39(16)																		18	21	23	24											
*39:19:02	B39(16)					5													18	21	23	24											
*39:22	-					5														21	23	24											
*39:24:02	-					5														21	23												
*39:25N, 39:30, 39:34	B39(16) , Null, -					5																23	24										
*39:32	-					5																23	24										
*39:33, 39:47, 39:50	-					5																23	24										
*39:36	-					5																23	24										
*39:39:01	-					5				11											21	23	24										
*39:39:02	-								11												21	23	24										
*39:42	-					5												17		21	23	24											
*39:43	-					5				12											21	23	24										
*39:48	-					5														21	23	24											
*39:58	-					5														21	23	24											
*39:63	-																			21	23	24											
*39:68	-					5														21	23	24											
*39:69	-					5														21	23	24											
*40:01:01-40:01:05, 40:01:08- 40:01:10, 40:01:12-40:01:17, 40:01:19-40:01:24, 40:07, 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(40) , Null, -					4																24	25										
*40:01:06	B60(40)					4																24	25										
*40:01:07, 40:01:18, 40:72:01	B60(40) ,					4																24											
*40:01:11	-					4															24	25											
*40:02:01-40:02:15, 40:89, 40:94, 40:97, 40:122, 40:142N-40:144N	B61(40) , Null, -																					26											
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	25	26	27	28	29	30	31	32

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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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	25	26	27	28	29	30	31	32
*40:03	B61(40)												12														26						
*40:04, 40:06:05, 40:39	B61(40), Null, -																											26					
*40:05	B4005			3																							26						
*40:06:01:01-40:06:04, 40:70	B61(40), -																										24	26					
*40:08	-																										26						
*40:09, 40:18, 40:24, 40:27:01-40:27:02, 40:29, 40:56-40:57, 40:78, 40:82, 40:85, 40:90-40:91, 40:104, 40:107, 40:111, 40:115, 40:119, 40:145, 40:169, 40:173, 40:176, 40:180- 40:181, 40:189	B61(40), -																										?	?					
*40:10:01	B60(40)			4																							25						
*40:10:02, 40:135	-			4																							25	?					
*40:11:01-40:11:02, 40:64, 40:99, 40:120, 40:133Q	B61(40), B40, -																										?	?					
*40:12	-					8			11									19								25							
*40:13	-																										26						
*40:14:01-40:14:03, 40:129, 40:192	B60(40), -			4																							?	?					
*40:15, 40:32	-	1		4																							?	?					
*40:16	B61(40)	1		4																							24						
*40:19	-																										?						
*40:20	B61(40)									12																26							
*40:21	-																										?	25					
*40:22N, 40:33, 40:36, 40:42, 40:49, 40:54-40:55, 40:61-40:63, 40:65, 40:67, 40:81, 40:84, 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, 40:168, 40:171, 40:175, 40:179, 40:182, 40:187, 40:191, 40:193	B60(40), Null, -			4																							?	25	?				
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*40:25, 40:69	-			4																							?	25	?				
*40:26	B21																										?	?					
*40:28	-																	17								?	?		31				
*40:30, 40:34, 40:160	B60(40), -			4																							?	25	?				
*40:31, 40:45, 40:80	B60(40), -			4																							?	?					
*40:35	B61(40)																										?	?					
*40:37	-																										?	?					
*40:38, 40:52	B60(40), -			4									12													?	25	?					
*40:40	-																										?	25	?				
*40:43	-			4																							?	25	?				
*40:44, 40:75, 40:86, 40:103, 40:127, 40:131, 40:165, 40:167, 40:190	-																										24		?				
*40:46	-														11			16								?	25						
*40:47, 40:188	B40, -			4																							25	?					
*40:48	B60(40)			4						10																?	25	?					
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	25	26	27	28	29	30	31	32

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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				37	38							47								55										B61(40)	*40:03			
					37	38						47																		B61(40)	*40:04, 40:06:05, 40:39			
					37	38						47																		B4005	*40:05			
					37	38						47																	B61(40)	*40:06:01:01-40:06:04, 40:70				
						37						47			51				55										-	*40:08				
																																		*40:09, 40:18, 40:24, 40:27:01-40:27:02, 40:29, 40:56-40:57, 40:78, 40:82,
																																B61(40)	40:85, 40:90-40:91, 40:104, , - 40:107, 40:111, 40:115, 40:119, 40:145, 40:169, 40:173, 40:176, 40:180-40:181, 40:189	
																																B60(40)	*40:10:01	
																																-	*40:10:02, 40:135	
																															B61(40)	*40:11:01-40:11:02, 40:64, , B40, - 40:99, 40:120, 40:133Q		
																															-	*40:12		
																															-	*40:13		
																															B60(40)	*40:14:01-40:14:03, 40:129, , - 40:192		
																															-	*40:15, 40:32		
																															B61(40)	*40:16		
																															-	*40:19		
																															B61(40)	*40:20		
																															-	*40:21		
																																		*40:22N, 40:33, 40:36, 40:42, 40:49, 40:54-40:55, 40:61-40:63, 40:65, 40:67, 40:81, 40:84, 40:88, 40:92, 40:100-40:102, 40:108, 40:112, 40:114, 40:116, 40:118N, 40:123, 40:124:02-, Null, - 40:126, 40:128, 40:130, 40:134, 40:141, 40:151, 40:154, 40:156, 40:168, 40:171, 40:175, 40:179, 40:182, 40:187, 40:191, 40:193
																															-	*40:23		
																															-	*40:25, 40:69		
																															B21	*40:26		
																															-	*40:28		
																															B60(40)	*40:30, 40:34, 40:160, -		
																															B60(40)	*40:31, 40:45, 40:80, -		
																															B61(40)	*40:35		
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																															-	*40:40		
																															-	*40:43		
																																		*40:44, 40:75, 40:86, 40:103, 40:127, 40:131, 40:165, 40:167, 40:190
																															-	*40:46		
																															B40, -	*40:47, 40:188		
																															B60(40)	*40:48		
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.	

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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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	25	26	27	28	29	30	31	32				
*40:50	B61(40)																								?	?											
*40:51	-								4															24	25												
*40:53, 40:72:02	B61(40)								4															24	?												
*40:58	-								4															?	?												
*40:59	-								4									12					24	25													
*40:60	-								4									12					24	25													
*40:68	-																							?	?												
*40:71	-								3															?	?												
*40:74, 40:149	-																							?	25	?											
*40:76	-								4															25	?												
*40:77	-								4															24													
*40:83, 40:177	-																							24													
*40:87:01-40:87:02	-								4															?	25	?											
*40:93	-																	11					16			24											
*40:95	-																								?	?											
*40:96	-																								24	?											
*40:98	-		1																						?	?											
*40:105	-																	12							?	?											
*40:106	-								4															?	25	?											
*40:109	-																								24	?											
*40:110	-								4															24	?												
*40:113, 40:163	-								4															?	25	?											
*40:117	-								4															25	?												
*40:121	-								4															?	?												
*40:132, 40:178	-								4															?	25	?		29									
*40:136	-	1		4					8									14						?	?	27											
*40:137	-																								?	25											
*40:138	-																								24	25											
*40:148, 40:161	-																								24	?											
*40:157	-																									?											
*40:158	-	1		4														12							?	?											
*40:159	-																	12							24	?											
*40:162	-																								24	?											
*40:164	-								4															?	?												
*40:166	-								4															?	25	?		28									
*40:170	-																								?	25											
*40:174	-			3																				?	?												
*40:183	-	1		4																				?	25	?											
*40:184	-																							21	?	?	?										
*40:185	-																							18	?	25											
*41:01, 41:06-41:07, 41:12, 41:14, 41:16-41:17, 41:20	B41, -								4															24	27		30										
*41:02:01-41:02:04, 41:11, 41:13	B41, -								4															24	27												
*41:03:01-41:03:02, 41:15	B41, -								4															24	27												
*41:04, 41:10, 41:18	-								4															24	27												
*41:05	-								4															24	27		30										
*41:08	-	1		4					8									14						24	27												
*41:09	-								4									8						24			30										
*41:19	-								4									8						24	27												
*42:01:01-42:02, 42:12	B42, -																		8						24	27	28										
*42:04	-																		8						24	27	28	30									
*42:05:01-42:05:02	-	1																	8					14			24	27	28								
*42:06	-																		8						24	27	28										
*42:07	-																		8						24	27											
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	25	26	27	28	29	30	31	32				

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64			Well No.
				37 38								47								55			58									B61(40)	*40:50	
				37 38								47		50																	-	*40:51		
				37 38								47																			B61(40)	*40:53, 40:72:02		
				37 38	40							47								55										,	-	*40:58		
				37 38								47 48																			-	*40:59		
				37 38								47																			-	*40:60		
				37								47			?																-	*40:68		
				37 38	41	43						47																		-	*40:71			
				37 38								47																		-	*40:74, 40:149			
				38																											-	*40:76		
				37 38								47																		-	*40:77			
				37 38								47																		-	*40:83, 40:177			
				37 38								47																		-	*40:87:01-40:87:02			
				38								47																		-	*40:93			
35				37 38								47									59		63						-	*40:95				
				38								46								54									-	*40:96				
				37 38								47 48								55									-	*40:98				
				37 38								47								55									-	*40:105				
				37								47		?																-	*40:106			
34	36			38								46							52	54									-	*40:109				
				38								46								54									-	*40:110				
				37 38								47		50															-	*40:113, 40:163				
34	36			38								46							52	54									-	*40:117				
				37 38								47																	-	*40:121				
				37 38								47								54									-	*40:132, 40:178				
				37 38								47																	-	*40:136				
				38								47 48																	-	*40:137				
				37 38								47																	-	*40:138				
35				37 38								47																	-	*40:148, 40:161				
				38								46							54	55									-	*40:157				
				37 38								47																	-	*40:158				
				37 38								47																	-	*40:159				
				37 38								47		?															-	*40:162				
				37 38								47								55									-	*40:164				
				37								47																	-	*40:166				
				37 38								47																	-	*40:170				
				37 38								47																	-	*40:174				
				37 38								47																	-	*40:183				
				37 38								47																	-	*40:184				
				38								47																	-	*40:185				
				37 38								47																	-	*41:01, 41:06-41:07, 41:12, 41:14, 41:16-41:17, 41:20				
				37 38								47 48																	-	*41:02:01-41:02:04, 41:11, 41:13				
				37 38								47																	-	*41:03:01-41:03:02, 41:15				
				? 38								47																-	*41:04, 41:10, 41:18					
				37 38								47																	-	*41:05				
				37 38								47																	-	*41:08				
				37 38								47																	-	*41:09				
				37 38								47 48								55									-	*41:19				
												47 48									56	57						-	*42:01:01-42:02, 42:12					
												47									56	57							-	*42:04				
												47 48									56	57						-	*42:05:01-42:05:02					
												47 48									56	57						-	*42:06					
												47 48									56	57						-	*42:07					
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	Well No.		

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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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	25	26	27	28	29	30	31	32						
*42:08	-								8																24		28												
*42:09	-																	12							24		27 28												
*42:10	-									8															24		27 28												
*42:11	-									8		11													24		27												
*42:13	-									8															24		27 28	29											
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*44:02:22, 44:12	B44(12) ,								4																17								29						
*44:03:01-44:03:06, 44:03:08- 44:05:03, 44:13, 44:26, 44:28:01-44:30, 44:32, 44:35- 44:36, 44:38-44:39, 44:42, 44:56N, 44:58N, 44:61N, 44:69-44:70, 44:76, 44:78- 44:79, 44:85, 44:88, 44:92, 44:94, 44:96, 44:98, 44:105, 44:108N-44:109, 44:114- 44:115, 44:117, 44:120, 44:122, 44:124-44:125, 44:128, 44:133, 44:136, 44:139, 44:141, 44:143, 44:147	B44(12) , B21, Null, -																									17													
*44:03:07, 44:07, 44:81, 44:103, 44:111	B44(12) ,																									17													
*44:06	B44(12)																								17									29	30				
*44:08	B44(12)								w																17														
*44:09	B45(12)								4																17														
*44:10	B44(12)								4									11						17															
*44:14	B44(12)								4				8					11						17															
*44:15	B12								4				8					11																	30				
*44:16, 44:91, 44:132	B47, -								4				6											17															
*44:17, 44:43:01-44:43:02	B44(12) ,								4									12	13					17															
*44:18	-								4				8					11																		30			
*44:20, 44:100	-								4				8																								29	30	
*44:24	-								4																17														
*44:25, 44:50	-								4																17														
*44:31	B44(12)								4																									25		29			
*44:37:01-44:37:02, 44:64:01- 44:64:02	-								4				6												17														
*44:40, 44:130	B44(12) ,																	11						16	17											29			
*44:41:01-44:41:02, 44:53, 44:99, 44:138Q	B44(12) ,								4																												29		
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101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64			Well No.	
														47						56	57									-		*42:08			
														47 48						56	57									-		*42:09			
														47 48						56	57									-		*42:10			
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																47				56	57									-		*42:14			
																47 48				56	57									-		*42:15			
																	47 48			56	57									-		*42:16			
																		56	57																

101.501.48/12 – including Taq polymerase, IFU-01
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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	25	26	27	28	29	30	31	32	
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*44:46, 44:129	-				4														17												29			
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*44:57	-		w															17												29				
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*44:62	-		4		8													17												29				
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*44:83	-																	17												29				
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*44:95	-		4															17												29				
*44:97	-		4															17												28	29	32		
*44:106	-		3	4																										29				
*44:127	-		4															17												29				
*44:131	-																	17												29				
*44:134	-																	17												29				
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*44:140	-		4														11													29				
*44:144	-		4														12	13											29					
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*44:146	-		4															17												29				
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*45:04	-		4		8																								24			30		
*45:06	-		4		8		11																					24	28		30			
*45:08	-		4		8																								24			30		
*45:09	-		4		8												12	13										24			30			
*45:10	-		4		8			10																				24			30			
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*46:02	B46					7											12												w			31		
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*46:11	-					7																							28			31		
*46:12	-		3			7											12	13										28			31			
*46:17	-					7											12	13										28			31			
*46:18	-					7																							28			31		
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*47:02	B47		4																										26			32		
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*47:04-47:05	-		4	5																									26					
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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	25	26	27	28	29	30	31	32	

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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					38	39							46							54											-		*44:44	
						38							46							54											-		*44:45, 44:51, 44:77, 44:82, 44:107, 44:123	
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						38							46						54											-		*44:47, 44:65		
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						37	38						47						54											-		*44:75		
						38	39						46						54											-		*44:83		
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34	36				38	39							46						54										-		*44:95			
						38	39						46						54										-		*44:97			
						38	39						46						54										-		*44:106			
						38	39						46						54										-		*44:127			
						37	38	39					47						54									-		*44:131				
						38							46						54										-		*44:134			
						38							46						54										-		*44:135			
						38	41						46						54										-		*44:140			
						38							46						54										-		*44:144			
						38	39						46						54										-		*44:145			
						38							45	46					54										-		*44:146			
						38							46	48					54										-		*44:150			
						37	38	41					47						54										B45(12)	*45:01, 45:05, 45:07, 45:11- 45:13				
						37	38						47						54										-		*45:02-45:03			
						37	38	41					47															-		*45:04				
						37	38	41					47						54		56	58						-		*45:06				
						37	38	40					47															-		*45:08				
						37	38						47						54										-		*45:09			
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													41		47															-		*46:11		
													45	47																-		*46:12		
													45	47																-		*46:17		
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													w	38					46	w									B47		*47:03			
													38					46			54								-		*47:04-47:05			
													33		38				47	48									B48, -		*48:01:01-48:01:03, 48:07- 48:09, 48:11, 48:19-48:20, 48:22, 48:27			
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33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.	

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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*48:03:01-48:03:02	B48											11													24	25												
*48:04, 48:24	B48, -											11													24													
*48:05, 48:08	B48, -	1										11													24													
*48:06	-																									24												
*48:10	B48											11													24													
*48:12	-											11													24													
*48:13	-											11													24													
*48:14	-											11 12													24													
*48:15	-	1										11													24													
*48:16	-											11													24													
*48:17	B48, 40											11													24	25												
*48:18	-											11													24													
*48:21, 48:26	-				5							11													24													
*48:23	-											11 12													24	25												
*49:01:01, 49:01:03, 49:06, 49:08-49:10, 49:12-49:17, 49:19N	B49(21), Null, -					4																																
*49:01:02, 49:11	B49(21), -, -					4																																
*49:02	B49(21)					4																																
*49:03	-																																					
*49:04	-					4						12																										
*49:05	B49(21)					4						12																										
*49:07	-					4						10																										
*49:18	-					4																																
*49:20	-					4						11																										
*50:01:01-50:01:03, 50:04- 50:05, 50:08, 50:10-50:11, 50:13, 50:16	B50(21), , -					4																				24												
*50:02	B45(12)					4						11														24												
*50:06	-					4																				24												
*50:07	-																									24												
*50:09	-					4																				24												
*50:12	-					4																				24												
*50:14	-					4																				24												
*50:15	-					4																				24												
*51:01:01, 51:01:03, 51:01:05-51:01:07, 51:01:10- 51:01:14, 51:01:16-51:01:20, 51:01:22-51:01:24, 51:01:26- 51:02:01, 51:02:03, 51:02:05- 51:03, 51:09:01, 51:11N- 51:12, 51:16, 51:19, 51:21, 51:23, 51:26-51:33, 51:38, 51:40-51:41N, 51:43, 51:48- 51:49, 51:51-51:53, 51:55, 51:57-51:58, 51:60, 51:65- 51:67, 51:69-51:77, 51:79- 51:80, 51:82-51:84, 51:86- 51:88, 51:91, 51:94-51:96, 51:98N, 51:100, 51:102, 51:105, 51:107-51:111, 51:113-51:115, 51:117, 51:120-51:127, 51:129- 51:130	B51(5), B5102, B5103, Null, -																																30					
*51:01:02, 51:02:02, 51:05, 51:09:02, 51:89, 51:103, 51:116, 51:119	B51(5), B5102,-																																					
*51:01:04, 51:02:04, 51:34- 51:35, 51:99, 51:131	B51(5), B5102,-																																			30		
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	25	26	27	28	29	30	31	32					

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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101.501.48/12 – including Taq polymerase, IFU-01
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*51:01:08, 51:01:15, 51:13:02-51:14, 51:50, 51:90	B51(5),																														30			
*51:01:09	B51(5)																												24					
*51:01:21, 51:01:25	-																												24		30			
*51:04, 51:46, 51:56:01- 51:56:02	B51(5),																		17										30	31				
*51:06:01-51:06:02	B51(5),																												30					
*51:07:01	B51(5)																												30					
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*51:08, 51:44N	B51(5), Null									8																			30					
*51:10	-																											24		30				
*51:13:01, 51:92	-																													30				
*51:15	-																																	
*51:17-51:18	B51(5)																												30					
*51:20	-									8																			30					
*51:22, 51:128	-																												30					
*51:24:01	B51(5)																												30					
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*51:24:03-51:24:04	B51(5),																											24		30				
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*51:45	-																	12											30					
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*51:59	-																												30					
*51:61	-																												30					
*51:62	-																												30					
*51:64	-								3																				30					
*51:68	-							2																					30					
*51:81	-																												30					
*51:85	-																												30					
*51:93	-																																	
*51:97	-									8				12														30						
*51:101	-																											21		30				
*51:104, 51:118N	Null, -																													30				
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*52:01:01:01-52:01:01:02, 52:01:03, 52:01:06-52:01:08, 52:01:11, 52:04-52:05, 52:07- 52:08, 52:10:01-52:11, 52:13, 52:15, 52:17, 52:24, 52:27-52:29	B52(5),																																	
*52:01:02, 52:01:04, 52:01:09, 52:03, 52:09	B52(5),																														30			
*52:01:05	B52(5)																																	
*52:01:10	-																											22						
*52:02	-																													30				
*52:06:01-52:06:02	-																													30				
*52:12	-																																	
*52:14	-																																	
*52:16	-																	11																
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	25	26	27	28	29	30	31	32	

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		36									44	46			51	52											63	-	*51:10						
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		35	36								44	46		49	51	52											63	B51(5)	*51:17-51:18						
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		w	36								44	45	46	49	51	52									63	-	*51:61								
		36									41	43	44	46		50	51								63	-	*51:62								
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		35	36								44	46		49	51											63	-	*51:85							
		35	36								44	46			51	52										63	-	*51:93							
		35	36								44	46		49	51											63	-	*51:97							
		35	36								44	46		49	51	52									63	-	*51:101								
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		35	36		38							46	49	52													63	B52(5), -	*52:01:01:01-52:01:01:02, 52:01:03, 52:01:06-52:01:08, 52:01:11, 52:04-52:05, 52:07-52:08, 52:10:01-52:11, 52:13, 52:15, 52:17, 52:24, 52:27-52:29						
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		35	36		38							46	49	51	52											63	-	*52:06:01-52:06:02							
		35	36		38							46	49													63	-	*52:12							
		35	36		38							46														63	-	*52:14							
		35	36		38							46	49	52												63	-	*52:16							
		33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.

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Lot No.: 01R

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	25	26	27	28	29	30	31	32
*52:18	-																																
*52:19	-								8																					30			
*52:20	-																																
*52:21	-																														30		
*52:22-52:23	-																																
*52:25	-																																
*52:26	-								6																								
*53:01:01-53:01:07, 53:05, 53:08:01-53:08:02, 53:10, 53:16, 53:18, 53:20-53:21, 53:23-53:27	B53, -																12																
*53:02	-																12			17											31		
*53:03, 53:11-53:13	B53, -																12			17													
*53:04	-																			17													
*53:06	-																12			17										30	31		
*53:07	B53																			17													
*53:09	-																12			17													
*53:14	-								3								12																
*53:15	-																12			17													
*53:17:01-53:17:02	-																12			17													
*53:19	-																			17													
*53:22	-																12	13		17											29		
*54:01:01, 54:07-54:08N, 54:10, 54:13, 54:16-54:19, 54:21-54:25	B54(22), , Null, -																													28	32		
*54:01:02	-																													28	32		
*54:02, 54:05N	B54(22), , Null																													28	32		
*54:03	-																													28	32		
*54:04	-																													28	32		
*54:06	-																12													28	32		
*54:09, 54:14	-																12													28	32		
*54:11	B54(22)																													24	28	32	
*54:12	-																													28	32		
*54:15	-																													28	32		
*54:20	-																													28	32		
*54:26	-																10													28	32		
*55:01:01-55:01:06, 55:01:08- 55:01:09, 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	B55(22), , B22, Null, -																													28	32		
*55:01:07, 55:02:01- 55:02:06, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:37, 55:39, 55:42-55:43, 55:47-55:48, 55:50	B55(22), , B22, -																													28	32		
*55:04, 55:49	B55(22), , -																													28	32		
*55:07, 55:35	B54(22), , -																													28	32		
*55:08	B56(22)																													28	32		
*55:09, 55:24	B22, -																10													28	32		
*55:13	-																													28	32		
*55:14	-																12			17									28	32			
*55:17, 55:28	-																													28	32		
*55:18	-																11																
*55:20	-																8													27	28	30	32
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	25	26	27	28	29	30	31	32

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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“Instructions for Use” (IFU)

Lot No.: 01R

Lot-specific information

33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64			Well No.
				35	36	38						46		49		52									60		63		-		*52:18			
				35	36	38						46		49		52									59	60		63	-		*52:19			
				35		38						46		49											59	60		63	-		*52:20			
				35	36	38						45	46		49		52								59	60		63	-		*52:21			
				35	36	38						46		49		52									59		63		-		*52:22-52:23			
				35	36	38		41				46													60		63		-		*52:25			
				35	36	38						46		49											59	60			-		*52:26			
				</																														

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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Lot No.: 01R

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	25	26	27	28	29	30	31	32
*55:21	-																											28		32			
*55:22	B55(22)									10																	28		32				
*55:23, 55:32, 56:18, 56:32 ⁴	-											12															28		32				
*55:27, 55:46	-																										28		32				
*55:34	-																										28		32				
*55:40	-																										28		32				
*55:41	-																										28		32				
*55:51	-			3																							28		32				
*55:56	-								8																		28	30	32				
*56:01:01-56:01:03, 56:08, 56:14, 56:16, 56:24, 56:26- 56:30, 56:34-56:35	B56(22), Null, -																										28		32				
*56:01:04, 56:20:01	B56(22), -																										28		32				
*56:02, 56:04	B56(22)												12														28		32				
*56:03	B22																										28		32				
*56:05:01	B56(22)																										28		32				
*56:05:02	B56(22)																										28		32				
*56:06	B78																	18								28		32					
*56:07	B56(22)																										28		32				
*56:09	-										12				17											28		32					
*56:10	B55(22)																										28		32				
*56:11	B56(22)																	17								28		32					
*56:12	B55(22)																	17								28		32					
*56:13	B56(22)								8																	28	30	32					
*56:15, 56:19N	B56(22), Null																										28		32				
*56:17, 56:33	-																																
*56:20:02	-																										24	28	32				
*56:21	-																										28		32				
*56:22	-																										28		32				
*56:23	-																																
*56:25	-																										28		32				
*56:31	-										12																28		32				
*57:01:01-57:01:04, 57:01:06- 57:01:13, 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, 57:43-57:44, 57:48-57:50, 57:52-57:56	B57(17), -																12	17															
*57:01:05, 57:13, 57:31, 57:47	B57(17), -																12																
*57:02:01-57:03:02, 57:17, 57:39, 57:42, 57:46, 57:57	B57(17), -																		17														
*57:04	B57(17)							6											17														
*57:05	-																		17														
*57:07	-																		17														
*57:09	-								8										17														
*57:11, 57:21	-											12																					
*57:12	-																		17														
*57:14	-												12						17														
*57:24	-													12					17														
*57:28N	Null																			17													
*57:32	-																			17													
*57:41	-																	12	17														
*57:45, 57:51	-							4										12	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	25	26	27	28	29	30	31	32

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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Lot No : 01R

Lot-specific information

33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64			Well No.
				w			40					45	47											57				63		-	*55:21			
														47																63		B55(22)	*55:22	
															47															63		-	*55:23, 55:32, 56:18, 56:32 ⁴	
																47														63		-	*55:27, 55:46	
																	47													63		-	*55:34	
																		47												63		-	*55:41	
																		47												63		-	*55:51	
																			47											63		-	*55:56	
																			41											63		B56(22)	*56:01:01-56:01:03, 56:08,	
																			41											63		, Null, -	56:14, 56:16, 56:24, 56:26-56:30, 56:34-56:35	
																			41	43										63		B56(22)	*56:01:04, 56:20:01	
																			45	47										63		,	-	
																			40											63		B56(22)	*56:02, 56:04	
																			35											63		B22	*56:03	
																			35											63		B56(22)	*56:05:01	
																			35											63		B56(22)	*56:05:02	
																			40	w										63		B78	*56:06	
																			41											63		B56(22)	*56:07	
																			41											63		,	-	
																			40	43										63		B56(22)	*56:09	
																			40											63		B55(22)	*56:10	
																			35											63		B56(22)	*56:11	
																			35											63		B55(22)	*56:12	
																			35											63		B56(22)	*56:13	
																			40											63		B56(22)	*56:15, 56:19N	
																			41											63		,	Null	
																			41											63		-	*56:17, 56:33	
																			41											63		-	*56:20:02	
																			34 35											63		-	*56:21	
																			46											63		-	*56:22	
																			40											63		-	*56:23	
																			35											63		-	*56:25	
																			41											63		-	*56:31	
																			36											63		B57(17)	*57:01:01-57:01:04, 57:01:06	
																			42											63		,	-	
																			36											63		B57(17)	57:01:13, 57:06, 57:08,	
																			42											63		,	-	
																			36											63		B57(17)	57:10, 57:15-57:16, 57:18-	
																			42											63		,	-	
																			36											63		B57(17)	57:20, 57:22-57:23, 57:25-	
																			42											63		,	-	
																			36											63		B57(17)	57:27, 57:29-57:30, 57:33-	
																			42											63		,	-	
																			36											63		B57(17)	57:38, 57:40, 57:43-57:44,	
																			42											63		,	-	
																			36											63		B57(17)	57:48-57:50, 57:52-57:56	
																			36											63		,	-	
																			42											63		B57(17)	*57:01:05, 57:13, 57:31,	
																			36											63		,	-	
																			42											63		B57(17)	57:39, 57:42, 57:46, 57:57	
																			36											63		B57(17)	*57:04	
																			36											63		,	-	
																			36											63		B57(17)	*57:05	
																			36											63		,	-	
																			36											63		B57(17)	*57:07	
																			36											63		,	-	
																			36											63		B57(17)	*57:09	
																			36											63		,	-	
																			36											63		B57(17)	*57:11, 57:21	
																			36											63		,	-	
																			36											63		B57(17)	*57:12	
																			36											63		,	-	
																			36											63		B57(17)	*57:14	
																			36											63		,	-	
																			36											63		Null	*57:28N	
																			36											63		,	*57:32	
																			36											63		,	*57:41	
																			34 36											63		,	*57:45, 57:51	
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64			Well No.



101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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 "Instructions for Use" (IFU)

Lot No.: 01R

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	25	26	27	28	29	30	31	32											
*58:01:01-58:01:02, 58:01:04-																																												
58:01:11, 58:04-58:05,	B58(17)												12					17																										
58:10N-58:15, 58:19, 58:21-	, Null, -																																											
58:24, 58:29-58:33, 58:35																																												
*58:01:03	B58(17)												12																															
*58:02, 58:06, 58:16, 58:25-	B58(17)												12																															
58:26	, -																																											
*58:07	-												12	13																														
*58:08:01	B17																															30												
*58:08:02	-																																											
*58:09	-												12				17																31											
*58:17N	Null												12			17																												
*58:18	-												3			12																												
*58:20	-																								21																			
*58:27	-																																											
*58:28	-																	17																										
*58:34	-																	17																										
*58:36	-															12		17														26												
*59:01:01-59:01:01:02,	B59, -																																											
59:05																																												
*59:02	B59																																											
*59:03	-																																											
*59:04	-																																											
*67:01:01	B67												5																	21	24		28											
*67:01:02	B67																													21	24		28											
*67:02	-																													21	24		28											
*67:03	-												5																	21	24		28											
*73:01-73:02	B73, -																														24		28											
*78:01:01-78:01:02, 78:07	B78, -																														18													
*78:02:01, 78:04	B78, -																														18													
*78:02:02	B78																														18													
*78:03	-																														18													
*78:05	-																														18													
*78:06	-																																											
*81:01	B81																																				28		32					
*81:02	B81																														24		28											
*81:03-81:05	Null, -																																											
*82:01, 82:03	B82, -												8		11															19									28		32			
*82:02	-												8		11															19									28		32			
*83:01	-																														17									28	29	32		
A*23:31, A*24:106, C*07:231, C*16:10													6																															
A*24:02:37																																												
A*24:146																																												
A*24:174																															13													
A*26:68, A*68:56, C*02:56, C*06:20, C*12:50													4																															
C*01:30																																												
C*02:06, C*02:47																																												
C*02:23, C*04:77													1																															
C*03:05, C*03:25, C*03:27, C*03:143													3																															
C*03:12, C*03:19																																												
C*03:102																															17													
C*03:129																																												25
C*05:30																																												
C*06:72																																												
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	25	26	27	28	29	30	31	32											

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 01R

Lot-specific information

33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.	
			36						43		46																				*58:01:01-58:01:02, 58:01:04 58:01:11, 58:04-58:05, 58:10N-58:15, 58:19, 58:21- 58:24, 58:29-58:33, 58:35			
			36						43		46																			B58(17), Null, -	B58(17)	*58:01:03		
			36						43		46																		B58(17), -	*58:02, 58:06, 58:16, 58:25- 58:26	B58(17)	*58:01:03		
			36						43		46																		-	-	*58:07			
			35	36					43		46		49		52													B17	*58:08:01					
			35	36					43		46		49		52												-	-	*58:08:02					
			36						43		46																-	-	*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					
			36						43		46																-	-	*58:34					
			36						42		46																-	-	*58:36					
			34					40			46																B59, -	*59:01:01-59:01:01-59:01:02, 59:05						
			34							46																		B59	*59:02					
			34							46																	-	-	*59:03					
			34					41			46															-	-	*59:04						
												47															B67	*67:01:01						
												47															B67	*67:01:02						
												47															-	-	*67:02					
												47															-	-	*67:03					
												47															B73, -	*73:01-73:02						
												45	47														B78, -	*78:01:01-78:01:02, 78:07						
																												B78, -	*78:02:01, 78:04					
																												B78	*78:02:02					
																												-	-	*78:03				
																												-	-	*78:05				
																												-	-	*78:06				
																												B81	*81:01					
																												B81	*81:02					
																												Null, -	*81:03-81:05					
																												B82, -	*82:01, 82:03					
																												-	-	*82:02				
																												-	-	*83:01				
																													A *23:31, A *24:106, C*07:231, C*16:10	A *23:31, A *24:106, C*07:231, C*16:10				
																																	A *24:02:37	
																																	A *24:146	
																																		A *24:174
																																		A *26:68, A *68:56, C*02:56, C*06:20, C*12:50
																																		C*01:30
																																		C*02:06, C*02:47
																																		C*02:23, C*04:77
																																		C*03:05, C*03:25, C*03:27, C*03:143
																																		C*03:12, C*03:19
																																		C*03:102
																																		C*03:129
																																		C*05:30
																																		C*06:72
	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.

101.501.48/12 – including Taq polymerase, IFU-01
101.501.48u/12u – without Taq polymerase, IFU-02

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Lot No.: 01R**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	25	26	27	28	29	30	31	32
C*07:02:30, C*08:16:02								7																									
C*07:46									8																								
C*08:51																																	
C*15:02:04																																	
C*15:25																															29		
C*15:39																																31	
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	25	26	27	28	29	30	31	32

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 low resolution typing.

In addition, wells number 4 to 6, 10, 17, 20, 21, 30, 31, 35, 42, 48, 50, 60 and 61 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

²The 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*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*35:43:02 allele has been renamed B*35:185.

The B*3573 allele has been renamed B*35:08:03.

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.

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 01R

Lot-specific information

The sequence of the B*4017 allele has been shown to be identical to B*40:16.

The sequence of the B*4011 allele has been shown to be identical to B*40:10.

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 sequence of the B*1501 allele has been shown to be identical to B*11:02. The sequence of the B*5003 allele has been shown to be identical to B*50:02.

The sequence of the B*5005 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

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*5005 allele has never been assigned.
The B*7901 allele has been renamed B*15:18:01

The B*7501 allele has been renamed B*15:18:01.

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.

⁴The B*55:23 and 55:32 and the B*56:18 and 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.

⁵Primer mix 64 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.

200 base pairs. The PCR product is a 'ser'. serological HLA specificity.

'w' might be weakly amplified.

'?' nucleotide sequence information not available for the primer matching sequence



101.501.48/12 – including *Taq* polymerase, IFU-01
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Lot No.: 01R

Lot-specific information

Primers

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product(s)	110	215	140	130	185	190	290	165	390	180	105	280
Length of int. pos. control ¹			235	265	235			220			195	
								330				
5'-primer(s) ²	800	1070	1070	800	800	800	1070	1070	1070	800	1070	1070
	527 5'-TgA 3' 5'-TCg 3'	97 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'-ggA 3'	45 5'-TTA 3'	420 5'-AgA 3'	206 5'-gTC 3'	419
	540 5'-gAC 3'		363 5'-AgC 3'	103 5'-CCg 3'	103 5'-CCT 3'	418 5'-Agg 3'		357 5'-Tgg 3'			420 5'-TTA 3'	
			363 5'-AgC 3'	361 5'-AgT 3'	363 5'-AAT 3'			412 5'-ATA 3'				
3'-primer(s) ³	605 5'-gCT 3'	272 5'-Tgg 3'	309 5'-gTg 3'	193 5'-CgT 3'	246 5'-TAT 3'	246 5'-TAT 3'	165 5'-Tgg 3'	206 5'-CCT 3'	266 5'-TCC 3'	559 5'-CTC 3'	272 5'-Tgg 3'	3 rd I 5'-TAT 3'
		272 5'-TgA 3'	559 5'-CAG 3'	193 5'-CgT 3'	246 5'-TAT 3'	572 5'-gCC 3'		538 5'-gTC 3'			572 5'-gCg 3'	
				583 5'-gTg 3'	559 5'-CTC 3'							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product(s)	195	105	115	80	150	135	60	210	170	110	395	160
	395	150					245					425
	435						400					
Length of int. pos. control ¹	1070	1070	1070	1070	800	1070	1070	800	800	1070	1070	1070
5'-primer(s) ²	142 5'-TCT 3'	45 5'-ggA 3'	161 5'-Cgg 3'	167 5'-gCT 3'	355 5'-TCA 3'	206 5'-gAC 3'	45 5'-ggA 3'	142 5'-TCT 3'	409 5'-ggC 3'	246 5'-gAA 3'	44 5'-ggC 3'	44 5'-ggC 3'
	419 5'-gTC 3'	540 5'-gAC 3'						368 5'-gTT 3'	368 5'-gTC 3'	420 5'-TTA 3'		357 5'-Tgg 3'
							557 5'-ggA 3'					
3'-primer(s) ³	301 5'-gTC 3'	272 5'-TgC 3'	234 5'-TCT 3'	204 5'-TCT 3'	463 5'-gCT 3'	302 5'-ggC 3'	259 5'-gTT 3'	311 5'-ggg 3'	544 5'-ggT 3'	317 5'-ggA 3'	272 5'-TgC 3'	302 5'-ggC 3'
	301 5'-gTC 3'	309 5'-ATC 3'	272 5'-TgA 3'				259 5'-gTT 3'	311 5'-ggg 3'				302 5'-ggT 3'
	570 5'-CCg 3'	605 5'-gCT 3'	272 5'-Tgg 3'				266 5'-TCC 3'	538 5'-gTC 3'				477 5'-gCg 3'
	572 5'-gCg 3'						272 5'-Tgg 3'					
							292 5'-gTA 3'					
							572 5'-gCg 3'					
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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Lot No.: 01R

Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec. PCR product(s)	180	290	105	325	115	215	130	90	90	145	120	430
		465			195		270	410	175	430	210	
					225							
					260							
Length of int. pos. control ¹	1070	1070	1070	1070	1070	800	800	1070	1070	1070	800	1070
5'-primer(s) ²	355	72	540	1 st I	355	141	209	41	209	48	357	49
	5' -TCA 3'	5' -gCT 3'	5' -gAC 3'	5' -CAg 3'	5' -TCA 3'	5' -ATT 3'	5' -ggC 3'	5' -CTg 3'	5' -ggC 3'	5' -gCC 3'	5' -Tgg 3'	5' -CAg 3'
	363	209			418	357	209	368	363	206		
	5' -Agg 3'	5' -ggC 3'			5' -Agg 3'	5' -Tgg 3'	5' -ggg 3'	5' -gTT 3'	5' -AgC 3'	5' -gAA 3'		
					499		355					
					5' -TCT 3'		5' -TCA 3'					
3'-primer(s) ³	499	193	603	282	538	309	299	282	259	309	435	309
	5' -ggA 3'	5' -CgT 3'	5' -gTg 3'	5' -gCC 3'	5' -gTC 3'	5' -ATC 3'	5' -TCA 3'	5' -gCC 3'	5' -gTT 3'	5' -ATC 3'	5' -TCT 3'	5' -ATC 3'
	193	605			572	538	583	418	499		527	
	5' -TgT 3'	5' -gCT 3'			5' -gCg 3'	5' -gTC 3'	5' -gTg 3'	5' -gTC 3'	5' -ggA 3'		5' -CCT 3'	
	387											
	5' -TCg 3'											
Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec. PCR product(s)	145	300	160	180	180	90	90	95	115	360	350	285
			330	210		240			150			
Length of int. pos. control ¹	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	800
5'-primer(s) ²	206	1 st I	15	141	420	209	209	206	165	1 st I	1 st I	355
	5' -gAA 3'	5' -CAg 3'	5' -gCA 3'	5' -ATT 3'	5' -TTA 3'	5' -ggC 3'	5' -ggA 3'	5' -gAC 3'	5' -ACC 3'	5' -CAg 3'	5' -CAg 3'	5' -TCA 3'
	418		420			209	369		463			363
	5' -Agg 3'	5' -TTA 3'				5' -ggA 3'	5' -TAC 3'		5' -TgA 3'			5' -AgC 3'
						362						
						5' -ggT 3'						
3'-primer(s) ³	311	259	175	311	559	256	256	259	272	317	311	603
	5' -ggT 3'	5' -CTC 3'	5' -CCg 3'	5' -ggT 3'	5' -CAg 3'	5' -CCC 3'	5' -CCC 3'	5' -gTT 3'	5' -TgC 3'	5' -ggA 3'	5' -ggT 3'	5' -gTg 3'
	259	538	559			259	256		538			605
	5' -CTC 3'	5' -gTC 3'	5' -CgT 3'			5' -CTT 3'	5' -CTC 3'		5' -CCA 3'			5' -gCT 3'
	262					559	420					
	5' -TgC 3'					5' -CgT 3'	5' -gCT 3'					
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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Lot No.: 01R

Lot-specific information

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
	165	260	390	380	160	125	235	550	640	90	455	105
	190					150				125		
						260				155		
						630				190		
Length of int. pos. control ¹	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	800
5'-primer(s) ²	435 5' -AAA 3'	363 5' -Agg 3'	49 5' -CAG 3'	317 5' -gCT 3'	106 5' -CCA 3'	206 5' -gAA 3'	363 5' -AgC 3'	272 5' -CTA 3'	206 5' -AgA 3'	141 5' -ATT 3'	256 5' -ACG 3'	206 5' -gAC 3'
						234 5' -CAA 3'	363 5' -AgC 3'			206 5' -gAA 3'	272 5' -CTC 3'	
						355 5' -TCA 3'						
3'-primer(s) ³	559 5' -CAG 3'	583 5' -gTg 3'	272 5' -TgA 3'	412 5' -gTT 3'	226 5' -CAC 3'	317 5' -ggA 3'	559 5' -CTC 3'	538 5' -gTC 3'	559 5' -CgT 3'	256 5' -CCC 3'	435 5' -TCT 3'	272 5' -Tgg 3'
	583 5' -gTg 3'					572 5' -gCg 3'				292 5' -gTC 3'		
						572 5' -gTg 3'						
Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Well No.	61	62	63									
Length of spec. PCR product(s)	90	435	95									
	120											
	150											
	180											
Length of int. pos. control ¹	800	1070	1070									
5'-primer(s) ²	165 5' -ACC 3'	272 5' -CTA 3'	407 5' -.gg 3'									
	222 5' -CCA 3'		409 5' -ggC 3'									
			409 5' -ggC 3'									
3'-primer(s) ³	272 5' -TgC 3'	419 5' -CgA 3'	463 5' -gCT 3'									
	302 5' -ggT 3'											
Well No.	61	62	63									

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 low resolution typing.

In addition, wells number 4 to 6, 10, 17, 20, 21, 30, 31, 35, 42, 48, 50, 60 and 61 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](http://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](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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Lot No.: 01R

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B low resolution SSP kit																				
				Prod. No.:	Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					201190001	201190002	201190003	201190004	201190005	201190006	201190007	201190008	201192409	201190010	201201111	201190012	201190013	201190014	201190015	201190016
		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	-	-	-	+	-	-	-	-	-	-	-	+	-	-	-	

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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Lot No.: 01R

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-B low resolution SSP kit																			
				Prod. No.:	Well														
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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	+	+	-	-	-	-	-	-	-	-	-	+	-	-	-

101.501.48/12 – including Taq polymerase, IFU-01
 101.501.48u/12u – without Taq polymerase, IFU-02

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 "Instructions for Use" (IFU)

Lot No.: 01R

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	48
				Prod. No.:	201190033	201190034	201190035	201190036	201190037	201190038	201190039	201190040	201190041	201190042	201190043	201190044	201298145	201190046	201190047	201188648
		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	-	-	-	-	-	+	-	-	-	-	-	+	-	+	+	

**101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02**

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

Lot No : 01R

Lot-specific information

CELL LINE VALIDATION SHEET

HLA-B low resolution SSP kit



101.501.48/12 – including *Taq* polymerase, IFU-01
 101.501.48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 01R

Lot-specific information

CERTIFICATE OF ANALYSIS**Olerup SSP® HLA-B low resolution SSP**

Product number: 101.501-48/12 – including *Taq* pol.
 101.501-48u/12u – without *Taq* pol.

Lot number: 01R

Expiry date: 2015-January-01

Number of tests: 48 tests – Product No. 101.501-48/48u
 12 tests – Product No. 101.501-12/12u

Number of wells per test: 63 + 1

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2011-900-01	25	2011-900-25	49	2011-924-49
2	2011-900-02	26	2012-040-26	50	2011-924-50
3	2011-900-03	27	2011-900-27	51	2011-924-51
4	2011-900-04	28	2011-900-28	52	2011-924-52
5	2011-900-05	29	2011-900-29	53	2011-924-53
6	2011-900-06	30	2011-900-30	54	2012-040-54
7	2011-900-07	31	2012-040-31	55	2011-924-55
8	2011-900-08	32	2011-900-32	56	2011-924-56
9	2011-924-09	33	2011-900-33	57	2011-924-57
10	2011-900-10	34	2011-900-34	58	2011-924-58
11	2012-011-11	35	2011-900-35	59	2012-040-59
12	2011-900-12	36	2011-900-36	60	2011-924-60
13	2011-900-13	37	2011-900-37	61	2011-924-61
14	2011-900-14	38	2011-900-38	62	2011-924-62
15	2011-900-15	39	2011-900-39	63	2012-040-63
16	2011-900-16	40	2011-900-40		
17	2011-900-17	41	2011-900-41		
18	2011-900-18	42	2011-900-42		
19	2011-900-19	43	2011-900-43		
20	2012-981-20	44	2011-900-44		
21	2011-900-21	45	2012-981-45		
22	2011-900-22	46	2011-900-46		
23	2011-900-23	47	2011-900-47		
24	2011-900-24	48	2011-886-48		

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

Additional 3'-primers in primer solutions 2, 3, 6, 13 to 15, 19, 29, 31, 35, 40, 58 were tested by separately adding additional 5'-primers.

Additional 5'-primers in primer solutions 1, 3, 6, 14, 19, 21, 25, 29, 31, 40, 48, 54, 58, 59 and 61 were tested by separately adding additional 3'-primers.

In primer solutions 31, 42 and 63 one 5'-primer was not possible to test and in primer solutions 38, 42, 54 and 61 one 3'-primer was not possible to test.

101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 01R

Lot-specific information

The negative control primer pairs, **Production No. 2011-917-01**, can detect contamination with PCR products diluted 10^{-7} .

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

Date of approval: 2012-July-19

Approved by:

Production Quality Control

101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 01R

Lot-specific information

Declaration of Conformity

Product name: Olerup SSP® HLA-B low resolution

Product number: 101.501-48/48u, -12/12u

Lot number: 01R

Intended use: HLA-B low resolution 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 13485:2003, 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
2014-September-02

Daniel Malica
Head of QA and Regulatory Affairs

101.501.48/12 – including *Taq* polymerase, IFU-01
101.501.48u/12u – without *Taq* polymerase, IFU-02

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

Lot No.: 01R

Lot-specific information

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Fax: +43-1-710 15 00 10

E-mail: support-at@olerup.com

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

Olerup Inc., 901 S. Bolmar St., Suite R, West Chester, PA 19382

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Fax: 610-344-7989

E-mail: info.us@olerup.com

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

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