

101.701-24/06 – including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **63S**

Lot-specific information

Olerup SSP[®] HLA-A-B-DR SSP Combi Tray

Product number:	101.701-24/06 – including <i>Taq</i> pol. 101.701-24u/06u – without <i>Taq</i> pol.
Lot number:	63S
Expiry date:	2016-March-01
Number of tests:	24 tests – Product No. 101.701-24/24u 6 tests – Product No. 101.701-06/06u
Number of wells per test:	95 +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. 63S.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®] HLA-A-B-DR SSP COMBI TRAY LOT (55S)

The **HLA-A low resolution** specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP[®] HLA-A-B-DR SSP Combi Tray* lot was made (**Lot No 55S**).

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

Well	5'-primer	3'-primer	rationale
5	-	Exchanged	3'-primer and control primer pair exchanged for improved resolution of HLA-specific PCR product and positive control.
12	-	Added	3'-primer added for the A*34:11 allele.
14	-	Exchanged	3'-primer exchanged for resolution of the A*29:48 allele.
15	Added	-	5'-primer added for the A*30:72 allele.
18	Added	-	5'-primer added for the A*33:51 allele.
19	New	New	New primer pair for the A*74 alleles.
21	Added	Added	Primer pair added for the A*23:57 allele.

The **HLA-B low resolution** specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP[®] HLA-A-B-DR SSP Combi Tray* lot was made (**Lot No. 55S**).

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

Well	5'-primer	3'-primer	rationale
27	-	Added	3'-primer added for the B*13:12:02 allele.
32	-	Added	3'-primer added for the B*42:19 allele.
42	-	Added	3'-primer added for the B*35:222 allele.
53	-	Added	3'-primer added for the B*44:03:17 allele.
66	-	Added	3'-primer added for the B*57:62 allele.

The **HLA-DR low resolution** specificity and interpretation tables have been updated for the HLA-DRB alleles described since the previous *Olerup* SSP® HLA-A-B-DR SSP Combi Tray lot was made (**Lot No. 55S**).

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

Well	5'-primer	3'-primer	rationale
73	-	Added	3'-primer added for the DRB1*01:55 allele.
92	Added	-	5'-primer added for the DRB1*08:53 allele.

Changes in revision R01 compared to R00:

1. Primer mix 43 does not amplify the B*44:10 allele. This has been corrected in the Specificity and Interpretation Tab

Change in revision R02 compared to R01:

1. Primer mix 19 does not amplify the A*74:07 allele, and primer mix 11 does not amplify the A*31:03 and A*66:15 alleles. This has been corrected in the Specificity and Interpretation tables.

The A*32:01:14, 32:03, 32:38 and the A*74:07 alleles give rise to identical amplification patterns with this lot of the HLA-A low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

Change in revision R03 compared to R02:

1. Primer mix 28 amplifies the B*15:143, 35:19, 40:170, 44:07 and 50:07 alleles, and primer mix 50 amplifies the B*37:06:01 allele. Foot notes for these two primer mixes have been added to the Specificity Table.

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Well 96 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 the amplicons generated by control primer pairs.

PCR product sizes range from 75 to 430 base pairs.
 The PCR product generated by the control primer pair is 430 base pairs.

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

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

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

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PRODUCT DESCRIPTION

HLA-A-B-DR SSP Combi Tray

CONTENT

The primer set contains 5'- and 3'-primers for grouping the HLA-A*01:01 to A*80:03 alleles into the corresponding serological groups A1 to A80.

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.

The primer set contains 5'- and 3'-primers for grouping the DRB1*01:01 to DRB1*10:05 alleles into the corresponding serological groups DR1 to DR18 as well as primer pairs for recognizing the DRB3, DRB4 and DRB5 groups of alleles.

PLATE LAYOUT

Each test consists of 96 PCR reactions in a 96 well 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
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	ctrl

Wells 1 to 24 – HLA-A low resolution primers.

Wells 25 to 72 – HLA-B low resolution primers.

Wells 73 to 95 – HLA-DR low resolution primers.

Well 96 – Negative Control.

The 96 well PCR plate is marked with 'A-B-DR' in silver/gray ink.

Well No. 1 is marked with the Lot No. '63S'.

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-A alleles will be amplified by the 24 wells of the HLA-A low resolution primer set, **wells 1 to 24**, except that primer mix 4 will amplify the C*03:174, C*08:69 and C*16:56 alleles, primer mix 5 will amplify the C*04:01:03 allele, primer mix 6 will amplify the B*18:27 allele and primer mix 9 will amplify the B*07:81, B*08:52, B*18:67, B*38:41, B*53:05 and B*53:16 alleles. Thus, the

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interpretation of HLA-A low resolution is only influenced by these seven HLA-B alleles and three HLA-C alleles and not by other HLA Class I genes.

Only HLA-B alleles will be amplified by the 48 wells of the HLA-B low resolution, primer set, **wells 25 to 72**, except that the C*02:23 and C*04:77 alleles will be amplified by primer mix 25, the C*03:05, C*03:25, C*03:27, C*03:143 and C*03:167 alleles will be amplified by primer mix 27, the C*01:30 and C*12:87 alleles will be amplified by primer mix 28, the A*23:31, A*24:106, C*07:231 and C*16:10 alleles will be amplified by primer mix 30, the C*01:73 allele will be amplified by primer mixes 31, 50 and 55, the C*07:02:30 and C*08:16:02 alleles will be amplified by primer mix 31, the C*07:46 allele will be amplified by primer mix 32, the A*24:174 allele will be amplified by primer mix 37, the C*03:102 allele will be amplified by primer mixes 41 and 65, the C*03:179 allele will be amplified by primer mix 43, the C*07:302 allele will be amplified by primer mix 44, the C*15:51 allele will be amplified by primer mix 45, the C*03:129 and C*17:16 alleles will be amplified by primer mix 49, the C*15:25 allele will be amplified by primer mix 53, the C*15:39 allele will be amplified by primer mix 55, the C*15:02:04 allele will be amplified by primer mix 64, the C*03:19 allele will be amplified by primer mix 65, the C*06:72 allele will be amplified by primer mix 66, the C*02:06 and 02:47 alleles will weakly be weakly amplified by primer mix 67 and the A*26:68, A*68:56, C*02:56, C*06:20 and C*12:50 alleles will be amplified by primer mix 69.

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

Only HLA-DRB alleles will be amplified by the 23 wells the DR low resolution primer set, **wells 73 to 95**. Thus, the interpretation of DR low resolution typings is not influenced by other HLA class II genes.

UNIQUELY IDENTIFIED ALLELES

All the HLA-A alleles, i.e. **A*01:01 to A*80:03**, recognized by the HLA Nomenclature Committee in April 2013¹ will be amplified by the primers in the HLA-A low resolution primer set, **wells 1 to 24**. The HLA-A alleles will be grouped into their corresponding serological specificities².

All the HLA-B alleles, i.e. **B*07:02 to B*83:01**, recognized by the HLA Nomenclature Committee in April 2013¹ will be amplified by the primers in the HLA-B low resolution primer set, **wells 25 to 72**. The HLA-B alleles will be grouped into their corresponding serological specificities³.

All the HLA-DRB1, -DRB3, -DRB4⁴ and -DRB5 alleles, i.e. **DRB1*01:01:01 to 10:05, DRB3*01:01:02:01 to DRB3*03:03, DRB4*01:01:01:01 to DRB4*01:08, DRB5*01:01:01 to DRB5*02:06**, recognized by the HLA Nomenclature Committee in April 2013¹ will be amplified by the primers in the DR low resolution primer set, **wells 73 to 95**. The HLA-DRB alleles will be grouped into their corresponding serological specificities⁵.

¹HLA-A, HLA-B and HLA-DRB alleles listed on the IMGT/HLA web page 2013-April-17, release 3.12.0, www.ebi.ac.uk/imgt/hla.

²The A*03:88 and the A*11:130 alleles will give rise to identical amplification patterns. These two alleles can be separated by the respective high resolution SSP primer sets.

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The A*03:152 and the A*24:92 alleles will give rise to identical amplification patterns. These two alleles can be separated by the respective high resolution SSP primer sets.

The A*23:14:01-23:14:02 and the A*24:24 and 24:71 alleles will give rise to identical amplification patterns. These alleles can be separated by the respective high resolution SSP primer sets.

The 24:14-24:15, 24:51-24:53, 24:57, 24:64, 24:94, 24:114, 24:138, 24:188, 24:222N, 24:228 and the C*04:01:03 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 5.

The A*32:01:14, 32:03, 32:38 and the A*74:07 alleles give rise to identical amplification patterns. These alleles can be separated by the respective high resolution primer sets.

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

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

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

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

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

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

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

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

⁴The DRB4*02:01N and DRB4*03:01N null alleles will not be amplified by the DR low resolution primer set.

⁵The DRB1*08:09 and the DRB1*14:15 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The DRB1*08:20 and the DRB1*13:18, 13:47, 13:55 and 13:158 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The DRB1*08:31, 08:41 and DRB1*11:67 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The DRB1*13:13, 13:119, 13:154 and 13:156 and the DRB1*14:84 and 14:116 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

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SPECIFICITY TABLE

HLA-A low resolution primer set

Specificities and sizes of the PCR products of the 24 primer mixes used for HLA-A low resolution SSP typing

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	HLA-A serology ³	Amplified HLA-A alleles ^{4,5}
1^{6,7}	120 bp, 145bp, 225 bp	800 bp	A1, A36	*01:01:01:01-01:04N, 01:06-01:33, 01:35-01:130, 03:18, 03:135, 11:94, 11:112, 36:01-36:05
2⁷	175 bp, 215 bp, 255 bp, 365 bp, 415 bp	800 bp	A2, A19, A28, A203, A210	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:81, 02:01:83-02:22:02, 02:24:01-02:35:01, 02:35:03-02:47, 02:49-02:77, 02:78 ^w , 02:79:01-02:97:02, 02:99, 02:101:01-02:128, 02:130-02:414, 02:416-02:417
3⁸	205 bp, 235 bp	1070 bp	A1, A3, A11, A32, A34, A36	*01:12, 01:19, 01:21, 01:126, 02:338, 03:01:01:01-03:17:02, 03:19-03:74, 03:76-03:94, 03:96-03:134, 03:136-03:166, 11:25, 11:60, 11:130, 24:92, 32:04, 34:02:01-34:04, 34:07-34:10N, 36:02
4	190 bp	800 bp	A1, A3, A11, A30, A36, A68	*01:01:01:01-01:01:22, 01:01:24-01:01:47, 01:01:49-01:04N, 01:06-01:07, 01:09-01:11N, 01:13, 01:16N-01:18N, 01:20-01:29, 01:31N-01:33, 01:35-01:78, 01:80-01:98, 01:100-01:130, 02:78, 02:169, 03:12, 03:18, 03:88, 03:135, 11:01:01-11:27, 11:29-11:52Q, 11:54-11:139, 11:141-11:142, 26:19, 26:72, 30:08, 36:04, 68:13:01, 68:66, C*03:174, C*08:69, C*16:56
5	160 bp, 335 bp 505 bp	1070 bp	A3, A9, A23, A24, A2403, A29, A31, A32	*03:15, 03:19, 03:30, 03:152, 11:139, 23:01:01-23:58, 24:02:01:01-24:11N, 24:13:01-24:15, 24:17-24:64, 24:66-24:210, 24:212-24:232N, 29:07, 29:49, 31:08, 31:29, 32:05, 33:19, 33:53, C*04:01:03
6^{9,12,13}	135 bp, 200 bp	800 bp	A9, A23, A24, A29, A80	*23:01:01-23:56, 23:58, 24:24, 24:71, 29:07, 29:49, 31:29, 80:01:01:01-80:03, B*18:27
7	175 bp, 205 bp	1070 bp	A2, A3, A9, A23, A24, A2403, A26	*02:17:01 ^w -02:17:02 ^w , 11:139, 23:14:01-23:14:02, 24:02:01:01-24:11N, 24:13:01-24:13:02, 24:17-24:50, 24:54-24:56, 24:58-24:63, 24:66-24:91, 24:93, 24:95-24:113, 24:115-24:137, 24:139-24:187, 24:189-24:210, 24:212-24:221, 24:223-24:227,

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				24:229-24:232N, 26:16, 33:19, 68:45
8	165 bp, 200 bp	800 bp	A2, A3, A10, A11, A25, A26, A28, A32, A34, A66, A68, A69	*01:51, 02:55, 03:24, 03:50, 11:10, 25:01:01-25:16, 25:18-25:22, 26:01:01- 26:06, 26:08-26:15, 26:17-26:18, 26:20- 26:43:02, 26:45-26:63, 26:65-26:71N, 26:73- 26:85, 29:28, 32:15, 33:51, 34:01:01-34:11, 66:01-66:19, 68:01:01:01-68:100, 69:01
9^{6,10}	75 bp	800 bp	A3, A25, A32	*25:01:01-25:22, 32:01:01-32:01:13, 32:01:15-32:02, 32:04, 32:06-32:37, 32:39- 32:57, B*07:81, B*08:52, B*18:67, B*38:41, B*53:05, B*53:16
10^{6,12}	80 bp, 240 bp	800 bp	A10, A26, A43	*01:43, 01:51, 11:17, 11:40, 26:01:01-26:02, 26:04, 26:07:01-26:20, 26:22-26:29, 26:31- 26:43:02, 26:45-26:77, 26:79-26:85, 33:13, 33:48, 43:01, 68:84
11^{6,7}	80 bp, 175 bp, 500 bp	1070 bp	A1, A9, A10, A11, A26, A31, A34, A66	*01:13, 01:28, 03:63, 03:88, 11:01:01-11:27, 11:29-11:52Q, 11:54-11:139, 11:141-11:142, 24:19, 24:44, 26:03:01-26:03:02, 26:06, 26:21, 26:78, 34:01:01-34:08, 34:10N-34:11, 66:01, 66:04-66:11, 66:13-66:14, 66:17- 66:19, 80:02
12⁶	125 bp, 190 bp	800 bp	A3, A10, A25, A26, A31, A34, A43, A66	*02:309, 03:01:19, 11:11, 25:05-25:06, 26:09, 26:54, 31:03-31:04, 34:01:01-34:11, 43:01, 66:02-66:03, 66:16
13	175 bp, 225 bp	1070 bp	A1, A2, A3, A10, A25, A26, A34, A43, A66	*01:01:56 ^w , 01:13, 02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:103, 02:135, 03:01:01:01-03:01:22, 03:01:24-03:07, 03:09-03:11N, 03:13-03:31, 03:33-03:35, 03:37-03:40, 03:42-03:56, 03:58, 03:60- 03:71, 03:73-03:87, 03:90-03:106, 03:109- 03:110, 03:112-03:141, 03:143-03:151, 03:153-03:166, 25:01:01-25:05, 25:07- 25:22, 26:01:01-26:01:20, 26:01:22- 26:01:27, 26:02 ^w , 26:03:01-26:03:02, 26:05- 26:08, 26:10-26:28, 26:29 ^w , 26:30-26:33, 26:35-26:43:02, 26:45-26:48, 26:49 ^w , 26:50- 26:72, 26:74-26:77, 26:79-26:85, 30:55, 34:08, 43:01, 66:01, 66:04-66:09, 66:10 ^w , 66:11-66:15, 66:17-66:19, 68:71, 74:13
14^{6,7,12}	80 bp, 115 bp, 200 bp, 240 bp, 460 bp	1070 bp	A26, A29, A31, A34,	*02:237, 02:309, 03:95, 26:19, 26:22, 29:01:01:01-29:53, 31:03-31:04, 32:42, 34:04, 66:09

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15 ^{6,7,13,14}	90 bp, 135 bp, 205 bp	1070 bp	A1, A30	*01:13, 01:28, 03:43, 03:82, 11:113, 30:01:01-30:04:02, 30:06-30:20, 30:22-30:74, 31:35
16	240 bp, 380 bp	1070 bp	A2, A24, A31, A32	*02:237, 03:95, 29:14, 31:01:02-31:74, 32:05, 33:53
17	140 bp, 180 bp	1070 bp	A32	*01:95, 03:43, 03:82, 29:13, 29:39, 31:35, 32:01:01-32:03, 32:05-32:57, 74:07
18	200 bp, 390 bp	1070 bp	A33, A68	*02:243, 29:48, 32:15, 33:01:01-33:01:07, 33:03:01-33:37, 33:39-33:52, 33:54-33:68, 68:29, 74:04
19	340 bp 375 bp	800 bp	A2, A19, A68, A74	*01:121, 02:65, 02:407, 68:25, 74:01-74:06, 74:08-74:17
20 ¹²	210 bp, 240 bp	800 bp	A2, A210, A25, A68	*02:34-02:35:03, 02:46, 02:48, 02:56:01- 02:56:02, 02:62, 02:70, 02:78, 02:103, 02:129, 25:05, 26:54, 68:01:01:01-68:100
21 ⁶	65 bp, 240 bp, 375 bp	800 bp	A2, A26, A28, A32, A66, A68, A69	*02:55, 02:149, 02:243, 02:309, 23:57, 24:82, 26:22, 31:41, 32:06, 33:22, 66:06, 66:09, 68:29, 69:01
22 ^{6,11}	85 bp, 240 bp	800 bp	A2, A36	*02:34-02:35:03, 02:46, 02:48, 02:56:01- 02:56:02, 02:62, 02:70, 02:78, 02:103, 02:129, 31:62, 36:01-36:05
23 ^{6,12}	75 bp, 160 bp, 240 bp, 495 bp	800 bp	A2, A26, A28, A36, A68, A80	*02:55, 03:41, 03:63, 03:75, 03:88, 11:130, 24:18, 24:204, 24:213, 26:03:01-26:03:02, 26:05-26:06, 26:21, 26:30, 26:78, 33:24, 36:02, 68:05, 68:15, 68:20, 80:01:01:01- 80:01:01:02, 80:03
24 ¹³	360 bp	1070 bp	A10, A26, A31, A66	*02:135, 02:309, 03:01:19, 25:13, 26:30, 26:65, 31:04, 34:09, 66:02-66:03, 66:12, 66:16

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

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

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

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

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

²The internal positive control primer pairs amplify segments of the human growth hormone gene.

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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-A low resolution typing.

In addition, wells 2, 4, 6, 8 to 10, 12 and 19 to 23 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-A alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

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

⁵Due to the sharing of sequence motifs between HLA-Class I alleles, primer mix 4 will amplify the C*03:174, C*08:69 and C*16:56 alleles, primer mix 5 will amplify the C*04:01:03 allele, primer mix 6 will amplify the B*18:27 allele and primer mix 9 will amplify the B*07:81, B*08:52, B*18:67, B*38:41, B*53:05 and B*53:16 alleles.

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

⁷The primer pairs in wells 1, 2, 11, 14 and 15 will in many samples give rise to two or three HLA-specific PCR fragments.

⁸Primer mix 3 may faintly amplify the A*30:04:01-30:04:02, 30:06, 30:17 and 30:29 alleles.

⁹Primer mix 6 may give rise to a lower yield of A*23 alleles than the other A low primer mixes.

¹⁰Primer mix 9 may weakly amplify the A*34 alleles.

¹¹Primer mix 22 might faintly amplify most A*11 alleles.

¹²Primer mixes 6, 10, 14, 20 and 23 may have a tendency of giving rise to primer oligomer formation.

¹³Primer mixes 6, 15 and 24 may give rise to a lower yield of HLA-specific PCR product than the other HLA-A low primer mixes.

¹⁴Primer mix 15 may have tendencies of unspecific amplifications.

‘w’, might be weakly amplified.

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SPECIFICITY TABLE

HLA-B low resolution primer set

Specificities and sizes of the PCR products of the 48 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}
25^{6,10}	110 bp	800 bp	7, 703, 40, 41, 42, 48, 61	*07:02:01-07:18:02, 07:20-07:32, 07:34-07:39, 07:41-07:47, 07:49N-07:50, 07:52, 07:54-07:59, 07:61-07:99, 07:101-07:121, 07:123-07:138, 07:140-07:154, 07:156-07:163, 07:166-07:190, 08:79, 15:138, 15:230, 15:241, 37:07, 40:15-40:16, 40:23, 40:32, 40:98, 40:136, 40:158, 40:183, 40:198, 40:231, 41:08, 42:05:01-42:05:02, 44:150, 48:05, 48:08, 48:15, C*02:23, C*04:77
26	215 bp	1070 bp	8, 44	*08:01:01-08:05, 08:07-08:25, 08:27-08:49, 08:51-08:61, 08:63-08:64, 08:66-08:84, 08:86N-08:93, 08:95-08:108, 15:142, 15:180, 35:218, 44:49, 44:156, 49:25, 51:68
27	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, 13:06-13:08, 13:10-13:23, 13:25-13:38, 13:40-13:57, 13:59-13:66, 15:07:01-15:07:02, 15:36 ^w , 15:45, 15:55, 15:68, 15:89 ^w , 15:126, 15:207, 35:05:01-35:05:03, 35:16-35:17, 35:22, 35:30, 35:51, 35:58, 35:72, 35:89, 35:97, 35:113-35:114, 35:125, 35:164, 35:199, 40:05, 40:71, 40:174, 44:08 ^w , 44:54, 44:57 ^w , 44:60, 44:106, 44:110, 44:135, 44:158, 46:12, 51:64, 51:148, 53:14, 55:51, 58:18, C*03:05, C*03:25, C*03:27, C*03:143, C*03:167
28^{7,8,16}	130 bp, 265 bp	800 bp	12, 13, 14, 17, 21, 35, 40, 41, 44, 45, 47, 49, 50, 60, 61, 64, 65	*13:01:01-13:04, 13:06-13:13, 13:15-13:23, 13:25-13:57, 13:59-13:67, 14:01:01-14:02:08, 14:03-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:33, 15:46, 15:53, 15:106, 15:212, 18:44:01-18:44:02, 35:46-35:47, 35:63, 35:154, 35:207, 35:217, 40:01:01-40:01:29, 40:07, 40:10:01-40:10:02, 40:14:01-40:16, 40:22N-40:23, 40:25, 40:30-40:34, 40:36, 40:38, 40:42-40:43, 40:45, 40:47-40:49, 40:51-40:55, 40:58-40:63, 40:65-40:67, 40:69, 40:72:01-40:73, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:110, 40:112-40:114, 40:116-40:118N, 40:121, 40:123-40:126, 40:128-40:130, 40:132, 40:134-40:136, 40:139-40:141, 40:146-40:147, 40:150-40:156, 40:158,

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29⁸	185 bp, 235 bp	800 bp	7, 16, 17, 27, 2708, 37, 38, 3901, 3902, 39, 64, 67	*07:02:32, 14:01:01-14:01:03, 14:07N-14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 27:01-27:05:15, 27:05:17-27:05:19, 27:05:21-27:06, 27:08-27:10, 27:12-27:13, 27:16-27:18, 27:20, 27:23, 27:26-27:27, 27:29, 27:31, 27:35-27:37, 27:39-27:42, 27:44-27:46, 27:48-27:61, 27:64N-27:69, 27:72-27:75, 27:77-27:80, 27:82-27:105, 37:02, 38:01:01-38:02:02, 38:02:04-38:03, 38:07-38:24, 38:26-38:32, 38:34N-38:43, 39:01:01:01-39:01:01:03, 39:01:03-39:01:08, 39:01:10-39:02:01, 39:03, 39:05:01-39:09, 39:11, 39:14-39:15, 39:18, 39:19:02, 39:22, 39:24:01-39:39:01, 39:40:01N-39:44, 39:46-39:48, 39:50-39:62, 39:64-39:71, 39:73-39:75, 39:77, 39:79-39:82, 47:04-47:05, 48:21, 48:26, 67:01:01, 67:03
30	180 bp	800 bp	14, 35, 38, 39, 65	*07:28, 08:87, 14:02:01-14:02:02, 14:02:04-14:02:05, 14:02:07-14:06:02, 14:09, 14:11, 14:13, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29-14:31, 14:33, 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
31	290 bp	1070 bp	15, 22, 62, 63, 71, 72, 75, 76, 77, 46	*15:01:01:01-15:01:03, 15:01:06-15:02:06, 15:03:03, 15:04-15:08, 15:10:02-15:11:03, 15:11:05-15:15, 15:17:01:01-15:17:02, 15:19-15:21, 15:24:01-15:28, 15:30-15:36, 15:38:01-15:40, 15:42-15:46, 15:48, 15:50, 15:55-15:58, 15:60, 15:63, 15:65-15:66, 15:70-15:71, 15:73, 15:75-15:79N, 15:81-15:89, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:107, 15:109-15:113, 15:116-15:118, 15:120-15:122, 15:125-15:126, 15:128-15:129, 15:135-15:150, 15:152, 15:154-15:155, 15:157, 15:159-15:160, 15:162-15:172, 15:174-15:175,

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32	165 bp, 220 bp, 285 bp, 330 bp	1070 bp	5, 8, 12, 21, 22, 37, 41, 42, 44, 45, 48, 51, 56, 57, 60, 62, 70, 71, 72, 82	*08:01:01-08:05, 08:08N-08:13, 08:15-08:27, 08:29- 08:36, 08:38-08:48, 08:50-08:73, 08:75-08:76, 08:78, 08:80-08:86N, 08:88, 08:90-08:106, 13:46, 15:03:01- 15:03:04, 15:09-15:10:02, 15:18:01-15:18:05, 15:23, 15:29, 15:37, 15:46-15:47:02, 15:49, 15:51-15:54, 15:61-15:62, 15:64:01-15:64:02, 15:69, 15:72, 15:74, 15:80, 15:83, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:106, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131-15:134, 15:143, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197-15:198, 15:200, 15:210, 15:212, 15:220-15:221, 15:226N, 15:229, 15:235, 15:238, 15:242-15:243, 15:252-15:253, 15:255, 15:259, 15:263, 15:266, 15:274-15:275, 35:87, 37:12, 38:30, 40:12, 40:136, 40:231, 41:01-41:03:02, 41:05-41:09, 41:11-41:17, 41:19-41:27, 42:01:01- 42:02, 42:04-42:08, 42:10-42:15, 42:17-42:19, 44:14- 44:15, 44:18, 44:20, 44:62, 44:100, 44:166, 45:01- 45:14, 51:08, 51:20, 51:36, 51:44N, 51:97, 51:141, 52:19, 55:20, 55:56, 56:13, 57:09, 82:01-82:03, C*07:46
33^{8,9,11}	165 bp, 190 bp, 390 bp	1070 bp	5, 17, 21, 35, 51, 5102, 5103, 52, 56, 62, 63, 70, 78	*13:62, 15:01:02, 15:09, 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, 15:243, 15:254, 15:268, 15:273, 35:01:10, 35:04:02, 40:26, 40:28, 44:62, 49:18, 50:14, 51:01:01-51:01:03, 51:01:05-51:02:03, 51:02:05-51:09:02, 51:11N-51:12, 51:13:02-51:14, 51:16-51:23, 51:24:03-51:24:04, 51:26-51:33, 51:37- 51:41N, 51:43-51:44N, 51:46, 51:48-51:61:02, 51:63- 51:80, 51:82-51:91, 51:94-51:98N, 51:100-51:130, 51:132-51:142, 51:145-51:147, 51:149N-51:152, 52:01:01:01-52:01:04, 52:01:06-52:01:14, 52:01:16- 52:13, 52:15-52:24, 52:26-52:31, 53:28, 56:05:01- 56:06, 56:21, 58:08:01-58:08:02, 78:01:01-78:07
34	180 bp	800 bp	13, 22, 55, 60	*07:78, 13:01:01-13:02:15, 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- 13:58, 13:60-13:61, 13:63N-13:67, 40:48, 45:10, 49:07, 50:31, 54:26, 55:09, 55:22, 55:24

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35⁶	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- 15:03:04, 15:47:01-15:47:02, 15:49, 15:54, 15:61- 15:62, 15:64:01-15:64:02, 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, 15:253, 15:259, 15:266, 15:274, 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, 44:156, 45:01, 45:05-45:07, 45:11-45:14, 48:01:01-48:05, 48:07- 48:30, 49:20, 50:02, 52:16, 55:18, 82:01-82:03
36	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, 07:162, 08:28, 08:35, 08:37, 08:89, 08:107, 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, 15:64:01-15:72, 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, 15:244-15:247, 15:249-15:251, 15:254-15:268, 15:270-15:272N, 15:274-15:275, 18:01:01:01-18:15, 18:17N-18:25, 18:27-18:40, 18:42-18:60, 18:62- 18:89, 27:41, 35:01:01:01-35:01:37, 35:05:01- 35:05:03, 35:07-35:08:06, 35:10-35:11:03, 35:14:01- 35:17, 35:19-35:21, 35:23-35:30, 35:32:01-35:32:02, 35:35, 35:37, 35:40N-35:43:01, 35:45-35:54, 35:57- 35:58, 35:61:01-35:64:02, 35:66-35:69, 35:71-35:72, 35:76-35:80, 35:82, 35:86, 35:89-35:94, 35:97, 35:99-35:105, 35:107-35:108:02, 35:110-35:126, 35:130N-35:135, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173N-35:178, 35:180, 35:185-35:192, 35:194, 35:196-35:197, 35:200, 35:202-35:203, 35:206- 35:210, 35:212, 35:215-35:219, 35:222, 35:224- 35:229, 37:35, 39:07, 39:43, 40:03, 40:20, 40:38, 40:52, 40:59-40:60, 40:105, 40:158-40:159, 40:222, 41:24, 42:09, 44:17, 44:43:01-44:43:02, 44:144, 45:09, 46:01:01-46:10, 46:12-46:17, 46:19-46:38, 48:02:01-48:02:03, 48:14, 48:23, 48:25, 49:04-49:05, 51:37, 51:45, 51:63, 51:97, 53:01:01-53:03, 53:05- 53:06, 53:08:01-53:18, 53:20-53:30, 54:06, 54:09, 54:14, 55:14, 55:23, 55:32, 56:03, 56:09, 56:18,

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37	195 bp	1070 bp	27, 35, 37, 44, 58, 76	*15:12, 15:14, 15:19, 15:91, 15:131, 15:161, 15:270, 18:54, 18:56, 35:45, 35:71, 37:01:01-37:09, 37:12-37:13, 37:15-37:21, 37:23-37:28, 37:30N-37:33N, 37:35-37:36, 38:17, 44:17, 44:43:01-44:43:02, 44:144, 45:09, 46:17, 53:22, 58:07, A*24:174
38⁶	105 bp, 395 bp, 435 bp	1070 bp	5, 7, 15, 41, 42, 62, 63, 70, 71, 75, 77	*07:04, 07:25, 07:146, 15:09-15:10:02, 15:13:01-15:13:02, 15:16:01-15:18:05, 15:21, 15:23-15:24:02, 15:37, 15:44, 15:51-15:52, 15:66-15:67, 15:72, 15:80, 15:87, 15:90, 15:93, 15:95, 15:99, 15:108, 15:114-15:115, 15:119, 15:124, 15:133-15:134, 15:153, 15:157, 15:161-15:162, 15:168, 15:176-15:177, 15:186, 15:189, 15:196-15:198, 15:200, 15:208, 15:216, 15:221-15:222, 15:226N, 15:229-15:230, 15:238, 15:243, 15:252, 15:254, 15:263, 15:268, 15:273, 15:275, 40:136, 40:231, 41:08, 42:05:01-42:05:02
39⁶	115 bp, 150 bp	1070 bp	18	*18:01:01:01-18:15, 18:17N-18:28, 18:30-18:71, 18:73-18:89, 48:28
40⁶	80 bp	1070 bp	7, 27, 2708, 44, 60	*07:73, 08:88, 08:102, 27:01-27:21, 27:23-27:51, 27:53-27:66N, 27:68-27:74, 27:76-27:105, 38:22, 40:46, 40:93, 44:40, 44:44, 44:130, 49:26
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62	300 bp	1070 bp	7, 12, 13, 15, 17, 18, 21, 27, 2708, 35, 37, 38, 39, 3902, 40, 4005, 41, 44, 45, 47, 48, 49, 50, 52, 60, 61, 62, 70, 72, 76	*07:54, 07:123, 08:17, 08:38, 08:54, 08:101, 13:01:01-13:04, 13:06, 13:08-13:23, 13:25-13:35, 13:37-13:67, 15:01:01:01-15:01:04, 15:01:06- 15:01:18, 15:01:20-15:01:32, 15:03:01-15:07:02, 15:12, 15:14, 15:19-15:20, 15:24:01-15:27:03, 15:30, 15:32-15:36, 15:38:01-15:40, 15:42-15:43, 15:45- 15:50, 15:53-15:54, 15:56-15:58, 15:60-15:63, 15:65- 15:66, 15:68-15:71, 15:73-15:75, 15:77-15:79N, 15:81-15:87, 15:91-15:92, 15:94N, 15:96-15:98, 15:101-15:107, 15:109-15:111N, 15:113, 15:116- 15:118, 15:122-15:123, 15:125-15:129, 15:131- 15:132, 15:135-15:138, 15:140-15:142, 15:145- 15:147, 15:150-15:152, 15:154-15:160, 15:163- 15:167, 15:169, 15:171-15:175, 15:178-15:179,

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63^{8,14}	160 bp, 330 bp	1070 bp	22, 44, 45, 47, 54	*08:87, 44:02:01:01-44:02:29, 44:06, 44:08-44:09, 44:11-44:12, 44:16, 44:19N-44:24, 44:27:01-44:27:02, 44:33-44:34:02, 44:41:01-44:41:02, 44:44, 44:48-44:49, 44:52N-44:53, 44:55, 44:59:01-44:59:02, 44:63, 44:66-44:68, 44:71-44:74, 44:80, 44:83-44:84, 44:86-44:87, 44:89-44:91, 44:93, 44:95, 44:97, 44:99-44:102, 44:104, 44:106, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126:01-44:127, 44:131-44:132, 44:137-44:138Q, 44:142, 44:145, 44:148-44:149N, 44:151-44:152, 44:162, 44:168-44:173, 54:01:01, 54:01:03-54:28, 83:01
64	180 bp, 210 bp	1070 bp	13, 15, 18, 35, 39, 40, 54, 55, 56, 59, 78	*07:65, 13:06, 13:53, 15:42, 15:86, 15:224, 18:04, 35:08:05, 35:42:02, 35:60, 35:185, 39:17, 39:63, 40:01:11, 40:58, 45:08, 46:18, 54:01:01-54:02, 54:05N, 54:07-54:08N, 54:10, 54:12-54:13, 54:16-54:25, 54:27-54:28, 55:01:01-55:03, 55:05, 55:07, 55:10-55:12, 55:15-55:16, 55:18-55:19, 55:21, 55:25-55:26, 55:29-55:31, 55:33-55:45, 55:47-55:48, 55:50, 55:52-55:57, 56:05:01, 56:06, 56:10, 56:23, 59:01:01:01-59:01:01:02, 59:05, 78:01:01-78:01:02, 78:02:02-78:03, 78:07, C*15:02:04
65	180 bp	1070 bp	12, 15, 21, 22, 44, 45, 49, 50, 51, 56, 61, 62, 82	*13:03, 13:48, 15:73, 40:71, 44:10, 44:15, 44:18, 44:140, 45:01, 45:04-45:07, 45:11-45:14, 46:11, 49:01:01-49:03, 49:06, 49:08-49:17, 49:19N-49:26, 50:01:01-50:02, 50:04-50:08, 50:10-50:13,

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66⁶	90 bp, 240 bp	800 bp	57	*55:14, 57:01:01-57:44, 57:46-57:50, 57:52-57:64, 58:36, C*06:72
67^{6,13}	90 bp	1070 bp	5, 13, 15, 17, 39, 55, 56, 58, 60, 61, 62, 71	*07:182N, 13:11, 15:18:03, 15:73, 15:224, 39:17, 40:48, 40:71, 51:62, 56:02, 56:04, 56:10, 58:01:01-58:02, 58:04-58:29, 58:31N-58:35, 58:37-58:40, 58:42, C*02:06^w , C*02:47^w
68⁶	95 bp	1070 bp	8, 18, 22, 35, 37, 38, 39, 44, 51, 5102, 5103, 53, 78	*07:65 ^w , 07:134 ^w , 08:32, 18:01:01:01-18:11, 18:13-18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:65, 18:67-18:89, 35:01:01:01-35:08:04, 35:08:06-35:09:03, 35:11:01-35:12:03, 35:14:01-35:15, 35:17-35:18, 35:20:01-35:24:02, 35:27, 35:29:01-35:45, 35:48, 35:50-35:62, 35:64:01-35:68:02, 35:70-35:72, 35:74-35:75, 35:76 ^w , 35:77-35:79, 35:81-35:153, 35:155-35:185, 35:187-35:190, 35:192-35:197, 35:199-35:206, 35:208-35:209, 35:211-35:216N, 35:218-35:225, 35:227-35:229, 37:08, 38:06-38:07, 39:19:01-39:19:02, 44:06, 51:01:01-51:24:04, 51:26-51:46, 51:48-51:103, 51:105-51:111, 51:113-51:117, 51:119-51:146, 51:148-51:152, 53:01:01-53:16, 53:18-53:27, 53:29, 56:06 ^w , 78:01:01-78:04, 78:07
69^{6,10}	115 bp, 150 bp	1070 bp	15, 18, 22, 27, 35, 39, 46, 55, 62, 72, 73, 75, 76	*07:100, 13:31, 13:41, 15:01:01:01-15:01:04, 15:01:06-15:01:16, 15:01:18-15:01:30, 15:01:32, 15:04, 15:07:01-15:08, 15:11:01-15:12, 15:14-15:15, 15:19, 15:24:01-15:24:02, 15:26N-15:28, 15:30, 15:32, 15:34-15:35, 15:38:01-15:38:02, 15:43, 15:45-15:46, 15:50, 15:53-15:54, 15:56-15:58, 15:60, 15:63, 15:66, 15:68, 15:70-15:71, 15:73, 15:75-15:77, 15:79N, 15:81-15:82, 15:85, 15:87, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:105, 15:109-15:111N, 15:113, 15:117-15:118, 15:120, 15:122, 15:125-15:126, 15:128-15:129, 15:135, 15:137, 15:140, 15:142-15:149N, 15:152, 15:154, 15:157, 15:159-15:160, 15:163-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:180-15:184, 15:187, 15:189-15:193, 15:201-15:203, 15:205-15:207, 15:209N, 15:211-15:212, 15:215, 15:217, 15:225, 15:227-15:228, 15:231-15:234, 15:236, 15:239, 15:241, 15:244-15:247, 15:251, 15:256-15:262N, 15:264, 15:267, 15:269-15:270, 15:272N, 18:19, 27:25, 27:75, 35:14:01-35:14:02, 35:43:01-35:44, 35:62, 35:67, 35:79, 35:86, 35:102,

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70¹⁵	360 bp	1070 bp	B ^w 4	*07:27, 07:36, 07:38, 07:81, 07:149, 07:180, 08:02-08:03, 08:52, 08:78, 13:01:01-13:04, 13:06-13:08, 13:10-13:23, 13:25-13:38, 13:40-13:66, 15:13:01-15:13:02, 15:16:01-15:17:02, 15:23-15:24:02, 15:36, 15:43, 15:67, 15:87, 15:89, 15:95, 15:115, 15:157, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230, 15:254, 15:256, 15:268, 15:273, 18:09, 18:54, 18:67, 27:01-27:07:03, 27:09-27:11, 27:13-27:17, 27:19-27:21, 27:23-27:25, 27:27-27:32, 27:34-27:39, 27:41, 27:43, 27:45-27:88, 27:90:01-27:105, 37:01:01-37:04:02, 37:06-37:10, 37:12-37:36, 38:01:01-38:43, 40:13, 40:19, 40:47, 40:96, 40:109-40:110, 40:117, 40:157, 40:188, 40:201, 44:02:01:01-44:08, 44:10-44:45, 44:47-44:74, 44:76-44:89, 44:91-44:126:02, 44:128, 44:130, 44:132-44:175, 47:01:01:01-47:01:02, 47:03-47:08, 48:18, 49:01:01-49:20, 49:22-49:26, 51:01:01-51:24:04, 51:26-51:46, 51:48-51:152, 52:01:01:01-52:31, 53:01:01-53:30, 54:12, 56:07, 56:21, 57:01:01-57:11, 57:13-57:64, 58:01:01-58:02, 58:04-58:29, 58:31N-58:40, 58:42, 59:01:01:01-59:05
71	350 bp	1070 bp	B ^w 6	*07:02:01-07:26, 07:28-07:35, 07:37, 07:39-07:80, 07:82-07:148, 07:150-07:179, 07:181N-07:190, 08:01:01-08:01:20, 08:04-08:05, 08:07-08:51, 08:53:01-08:77, 08:79-08:108, 13:09, 13:39, 13:67, 14:01:01-14:33, 15:01:01:01-15:01:04, 15:01:06-15:12, 15:14-15:15, 15:18:01-15:21, 15:25:01-15:35, 15:37-15:40, 15:42, 15:44-15:58, 15:60-15:66, 15:68-15:86, 15:88, 15:90-15:94N, 15:96-15:99, 15:101-15:114, 15:116-15:129, 15:131-15:156, 15:158-15:161, 15:163-15:167, 15:169-15:176, 15:178-15:195, 15:197-15:207, 15:209N-15:215, 15:217-15:221, 15:223-15:229, 15:231-15:253, 15:255, 15:257-15:267, 15:269-15:272N, 15:274-15:275, 18:01:01:01-18:08, 18:10-18:15, 18:17N-18:53, 18:55-18:66, 18:68-18:89, 27:08, 27:12, 27:18, 27:26, 27:33, 27:40, 27:42, 27:44, 27:89, 35:01:01:01-35:72, 35:74-35:221, 35:223-35:229, 37:05, 37:11, 37:14 ^w , 37:37, 39:01:01:01-39:01:01:03, 39:01:03-39:01:14, 39:01:16-39:20, 39:22-39:82, 40:01:01-40:12, 40:14:01-40:16, 40:18,

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72	285 bp	800 bp	7, 703, 8, 35, 40, 41, 42, 48, 53, 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, 07:140-07:164, 07:166-07:190, 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, 08:90-08:102, 08:104-08:106, 08:108, 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, 40:160:01-40:160:02, 41:02:01-41:02:05, 41:04, 41:10-41:11, 41:13, 41:18-41:19, 41:23-41:24, 41:27, 42:01:01-42:02, 42:05:01-42:07, 42:09-42:13, 42:15-42:20, 44:150, 44:166, 48:01:01-48:01:04, 48:05-48:12, 48:14-48:20, 48:22, 48:27-48:30, 53:15, 81:01-81:06

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

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

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

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

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

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

Well number 25 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band. In addition, wells number 28 to 30, 34, 41, 44, 45, 52, 54, 55, 59, 66 and 72 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band.

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

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

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

⁵Due to the sharing of sequence motifs between HLA-Class I alleles, the C*02:23 and C*04:77 alleles will be amplified by primer mix 25, the C*03:05, C*03:25, C*03:27, C*03:143 and C*03:167 alleles will be amplified by primer mix 27, the C*01:30 and C*12:87 alleles will be amplified by primer mix 28, the A*23:31, A*24:106, C*07:231 and C*16:10 alleles will be amplified by primer mix 30, the C*01:73 allele will be amplified by primer mixes 31, 50 and 55, the C*07:02:30 and C*08:16:02 alleles will be amplified by primer mix 31, the C*07:46 allele will be amplified by primer mix 32, the A*24:174 allele will be amplified by primer mix 37, the C*03:102 allele will be amplified by primer mixes 41 and 65, the C*03:179 allele will be amplified by primer mix 43, the C*07:302 allele will be amplified by primer mix 44, the C*15:51 allele will be amplified by primer mix 45, the C*03:129 and C*17:16 alleles will be amplified by primer mix 49, the C*15:25 allele will be amplified by primer mix 53, the C*15:39 allele will be amplified by primer mix 55, the C*15:02:04 allele will be amplified by primer mix 64, the C*03:19 allele will be amplified by primer mix 65, the C*06:72 allele will be amplified by primer mix 66, the C*02:06 and 02:47 alleles will weakly be weakly amplified by primer mix 67 and the A*26:68, A*68:56, C*02:56, C*06:20 and C*12:50 alleles will be amplified by primer mix 69.

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

⁷Primer mix 28 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes in B*40, B*41, B*45, B*49 and B*50 alleles.

⁸Primer mixes 28, 29, 33, 53 and 63 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes.

⁹Primer mix 33 has pronounced tendencies of unspecific amplifications.

¹⁰Primer mixes 25, 43, 44, 50, 53 and 69 have a tendency to giving rise to primer oligomer formation, most pronounced in primer mix 53

¹¹The B*57 and B*58 alleles might be faintly amplified by primer mix 33.

¹²The C*17:01 to C*17:04 alleles might be faintly amplified by primer mix 49.

¹³Primer mixes 56 and 67 may generate a false positive band of about 800 base pairs. This band should be disregarded when interpreting HLA-B low resolution typings.

¹⁴Primer mix 63 may give rise to a lower yield of B*54 alleles than the other B low primer mixes.

¹⁵The Bw4-associated HLA-A specificities A9, A23, A24, A2403, A25 and A32 are not amplified by the primer pair in primer mix 70.

¹⁶Primer mix 28 amplifies the B*15:143, 35:19, 40:170, 44:07 and 50:07 alleles in addition to the alleles specified in the table.

¹⁷Primer mix 50 amplifies the B*37:06:01 allele in addition to the alleles specified in the table.

‘w’, might be weakly amplified.

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

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SPECIFICITY TABLE

Specificities and sizes of the PCR products of the 23+1 primer mixes used for DR low resolution SSP typing

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	DR serology ³	Amplified HLA-DRB alleles ^{4,5}
73 ^{7,8}	205 bp, 255 bp	515 bp	1	*01:01:01-01:02:08, 01:04-01:38, 01:40N-01:58
74	200 bp	430 bp	103	*01:03, 01:39N, 01:42
75 ⁷	200 bp, 220 bp	430 bp	15	*15:01:01:01-15:94
76	210 bp	430 bp	16	*16:01:01-16:05:02, 16:07-16:23
77 ^{5,6,7}	120 bp, 220 bp	430 bp	3, 17, 18, 11	*03:01:01:01-03:75, 03:77-03:84, 03:86-03:90, 11:07, 11:53, 11:103, 11:105, 11:107, 11:125, 15:25
78 ^{5,6,7}	80 bp, 210 bp	430 bp	3, 17, 11, 13, 14,6	*03:01:01:01-03:01:22, 03:04:01-03:06, 03:08- 03:16, 03:18-03:20, 03:22-03:23, 03:25-03:26, 03:28, 03:30-03:31, 03:33-03:34, 03:36-03:37, 03:43-03:48, 03:50-03:52, 03:54-03:68N, 03:70- 03:73, 03:75-03:84, 03:86, 03:89, 08:40, 11:02:01-11:03, 11:11:01-11:11:02, 11:14:01- 11:14:02, 11:16, 11:20-11:21, 11:36, 11:40- 11:41, 11:48, 11:59, 11:63, 11:65:01-11:65:02, 11:68, 11:70, 11:73, 11:76, 11:79-11:80, 11:83, 11:85-11:87, 11:93, 11:118, 11:122, 11:124, 11:127, 11:131-11:132, 11:135, 11:138-11:139, 11:142, 13:01:01-13:04, 13:08, 13:10, 13:15- 13:17, 13:19-13:20, 13:22-13:24, 13:27-13:29, 13:31-13:41, 13:43, 13:45, 13:48, 13:51-13:54, 13:57, 13:59, 13:61:01-13:61:02, 13:63- 13:66:02, 13:68-13:76, 13:78-13:81, 13:83- 13:85, 13:87-13:99, 13:101-13:102, 13:104- 13:107, 13:109, 13:111-13:117, 13:120-13:131, 13:133, 13:135, 13:137N-13:145, 13:147- 13:149, 13:151-13:153, 13:155, 13:159, 14:16, 14:19, 14:21, 14:82, 14:95, 14:109, 14:132, 14:137N
79 ^{6,7}	85 bp, 210 bp	430 bp	3, 18, 11, 13, 14,6	*03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74, 03:88, 03:90, 11:13:01 ^w -11:13:02 ^w , 11:26, 11:34, 13:15, 13:19, 13:26:01-13:26:02, 13:44, 13:53, 13:57, 13:85-13:86, 13:104, 14:02- 14:03:02, 14:06:01-14:06:02, 14:09, 14:12:01- 14:13, 14:17-14:21, 14:24, 14:27, 14:29-14:30, 14:32:01 ^w -14:32:02 ^w , 14:33, 14:40-14:41, 14:47- 14:49, 14:51, 14:63, 14:65 ^w , 14:67, 14:77-14:78, 14:80-14:81, 14:83, 14:85, 14:89, 14:94, 14:98,

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Lot-specific information

		Lot-specific information		
				14:102, 14:106, 14:108-14:109, 14:115, 14:119, 14:121, 14:135
80 ^{6,7,8}	100 bp, 175 bp	430 bp	3,4	*04:01:01-04:05:11, 04:05:13-04:158N
81 ⁷	210 bp, 235 bp	430 bp	7, 13, 14	*07:01:01:01-07:01:04, 07:03-07:24, 12:22, 13:17, 13:116, 14:50
82 ⁷	170 bp, 215 bp, 250 bp	515 bp	8, 12, 14	*08:01:01-08:19, 08:21-08:53, 11:67, 12:04, 12:16:01-12:16:02, 12:22, 12:39, 14:11, 14:15, 14:68, 14:93
83 ^{6,7}	90 bp, 135 bp, 180 bp	430 bp	3, 9, 11	*03:08, 03:65, 09:01:02-09:20, 11:07, 11:53, 11:103, 11:105, 11:107, 11:125
84	175 bp	430 bp	10,11,13	*03:76, 10:01:01-10:05, 11:59, 11:80, 11:83, 11:87, 11:135, 11:142, 13:27, 13:41, 13:71, 13:129
85 ^{6,7}	100 bp, 170 bp	430 bp	11, 3, 8	*03:08, 03:65, 08:31, 08:41, 11:01:01-11:70, 11:72-11:145
86 ^{6,7}	85 bp, 105 bp	430 bp	12, 8	*08:32, 08:53, 12:01:01-12:39
87 ⁸	215 bp	430 bp	6, 8, 11, 13, 14, 1403	*03:76, 08:20-08:21, 11:01:01-11:04:11, 11:06:01-11:06:03, 11:08:01-11:12:02, 11:14:01-11:16, 11:18-11:21, 11:23-11:25, 11:27:01-11:33, 11:35-11:51, 11:54:01-11:54:02, 11:56-11:66, 11:68, 11:70, 11:72-11:81, 11:83-11:88, 11:90-11:97, 11:99-11:102:02, 11:106, 11:108-11:124, 11:126-11:135, 11:137-11:142, 11:144-11:145, 13:01:01-13:02:01, 13:02:03-13:08, 13:10-13:16, 13:18-13:43, 13:45-13:85, 13:87-13:115, 13:117-13:128, 13:130-13:145, 13:147-13:161, 14:03:01-14:03:02, 14:12:01-14:12:02, 14:16, 14:19, 14:21-14:22, 14:25, 14:27, 14:40, 14:53, 14:63, 14:67, 14:69, 14:74, 14:77-14:78, 14:84-14:85, 14:98, 14:102, 14:105, 14:109, 14:115-14:116, 14:128, 14:135, 14:137N, DRB3*02:27
88 ^{7,8}	195 bp, 225bp	430 bp	13, 8, 11, 12, 14, 6	*08:01:01-08:02:04, 08:04:01-08:09, 08:11, 08:16-08:17, 08:20-08:22, 08:24, 08:26, 08:28, 08:31, 08:39, 08:41-08:44, 08:50, 08:52, 11:01:01-11:01:17, 11:02:01-11:06:03, 11:09-11:12:02, 11:14:01-11:16, 11:20-11:21, 11:23-11:25, 11:27:01-11:30, 11:32-11:33, 11:35-11:41, 11:43-11:44, 11:46:01-11:51, 11:54:01-11:56, 11:58:01-11:63, 11:65:01-11:70, 11:72, 11:74:01-11:78, 11:80-11:88, 11:90-11:97, 11:99-11:102:02, 11:106, 11:108-11:118, 11:120-11:124, 11:126-11:129, 11:133-11:135, 11:137-11:142, 11:144-11:145,

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				12:02:01-12:02:05, 12:13, 12:15-12:16:02, 12:18-12:21, 12:23, 12:26-12:27, 12:31N-12:33, 12:37, 13:01:01-13:02:01, 13:02:03-13:02:08, 13:04-13:05:02, 13:07:01-13:09, 13:11:01-13:11:02, 13:14:01-13:24, 13:26:01-13:29, 13:31-13:32, 13:34-13:36, 13:38-13:43, 13:45-13:55, 13:57, 13:59, 13:61:01-13:65, 13:67-13:76, 13:78-13:80, 13:83-13:84, 13:87, 13:91-13:93, 13:96:01-13:100, 13:102-13:109, 13:111-13:114, 13:116-13:117, 13:121, 13:123-13:132, 13:135-13:136, 13:138-13:150, 13:153, 13:155, 13:158-13:160, 14:15-14:16, 14:22, 14:24-14:25, 14:27, 14:37, 14:53, 14:73, 14:105, 14:128
89⁵	175 bp	430 bp	3, 13, 14, 17, 6, 11	*03:01:01:01-03:07, 03:09, 03:11:01-03:41, 03:43-03:45, 03:47-03:63, 03:66-03:68N, 03:70-03:84, 03:86, 03:88-03:90, 08:20, 13:01:01-13:16, 13:18-13:42, 13:44, 13:46-13:66:02, 13:68-13:102, 13:104-13:115, 13:117-13:121, 13:123-13:158, 13:161, 14:02-14:03:02, 14:05:01-14:06:02, 14:09, 14:12:01-14:14, 14:17-14:21, 14:23:01, 14:23:03-14:24, 14:27, 14:29-14:30, 14:33, 14:36-14:37, 14:40-14:45, 14:47-14:48, 14:51, 14:56, 14:59, 14:63-14:65, 14:67, 14:77-14:78, 14:80-14:81, 14:83-14:85, 14:89, 14:91, 14:94-14:96, 14:98, 14:100, 14:102-14:103, 14:106, 14:108-14:109, 14:115-14:116, 14:121, 14:123, 14:127:01-14:127:02, 14:134-14:136
90^{6,7}	100 bp, 140 bp, 155 bp	430 bp	14, 4, 8,13, 6	*04:62, 04:69, 04:73, 04:105:01-04:105:02, 04:122, 04:146, 08:08, 11:69, 11:82, 13:45, 14:01:01-14:01:02, 14:01:04, 14:04, 14:07:01-14:07:02, 14:10, 14:16, 14:22, 14:25-14:26, 14:28, 14:31-14:32:03, 14:35, 14:37-14:39, 14:49-14:50, 14:53-14:54:01, 14:55, 14:57-14:58, 14:60-14:62, 14:68-14:71, 14:73-14:76, 14:79, 14:82, 14:86-14:88, 14:90, 14:93, 14:99, 14:101, 14:104-14:105, 14:107, 14:110-14:114, 14:117-14:120, 14:122, 14:124-14:125, 14:128-14:129, 14:131, 14:137N-14:140, DRB4*01:03:01:02N
91^{6,7,9}	110 bp, 135 bp, 170 bp	430 bp	14, 3, 9, 11, 12, 13, 15, 6, 4	*03:10, 09:01:02-09:01:05, 09:01:07-09:02:02, 09:04-09:20, 11:13:01-11:13:02, 11:17, 11:52, 13:43, 13:159, 14:01:01-14:02, 14:04-14:11, 14:13-14:14, 14:16-14:18, 14:19 ^w , 14:20, 14:21 ^w , 14:22-14:23:04, 14:26, 14:28-14:36,

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				14:38-14:39, 14:41, 14:43-14:52, 14:54:01-14:57, 14:59-14:62, 14:64-14:65, 14:68, 14:70-14:76, 14:79-14:83, 14:86-14:88, 14:90-14:97, 14:99-14:101, 14:103-14:108, 14:109 ^w , 14:110-14:114, 14:117-14:127:02, 14:129-14:134, 14:137N-14:140, 15:27, 15:34, 15:66
92 ^{6,7,8}	110 bp, 175 bp, 225 bp	430 bp	14, 3, 8, 11, 13, 15, 16, 6, 2	*03:10, 08:09, 08:20-08:21, 08:32, 08:35, 08:36:02, 08:53, 11:13:01-11:13:02, 11:17, 11:23, 11:25, 11:31, 11:45, 11:52, 11:55, 11:64, 11:89, 11:96, 11:119, 13:13, 13:18, 13:43, 13:45, 13:47, 13:55, 13:119, 13:144, 13:146, 13:154, 13:156, 13:158-13:159, 14:01:01-14:01:04, 14:03:01-14:05:04, 14:07:01-14:08, 14:10-14:12:02, 14:14-14:16, 14:18, 14:22-14:23:04, 14:25-14:28, 14:31-14:32:03, 14:34-14:36, 14:38-14:40, 14:42-14:45, 14:49-14:50, 14:53-14:65, 14:67-14:79, 14:81-14:82, 14:84-14:93, 14:95-14:97, 14:99-14:105, 14:107, 14:110-14:120, 14:122-14:140, 15:21 ^w , 16:04 ^w , 16:18 ^w
93 ^{7,8}	160 bp, 240 bp	430 bp	52	DRB3*01:01:02:01-01:15, DRB3*02:01-02:29N, DRB3*03:01:01-03:03
94 ^{8,10}	215 bp	430 bp	53	DRB4*01:01:01:01-01:08
95	175 bp	430 bp	51	DRB5*01:01:01-01:14, DRB5*02:02-02:06
96 ¹¹				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 DR low resolution SSP subtypings. When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits the respective lengths of the HLA-specific PCR product(s) are given for the alleles amplified by these primer mixes.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers, e.g. the primers in wells 75 and 90 to 92.

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

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

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

²The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.

Well number 73 contains the primer pair giving rise to the longer, 515 bp, internal positive control band. In addition, well number 82 contains the primer pair giving rise to the longer, 515 bp, internal positive control band.

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

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³The serological split of all DRB1 alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

⁴For several DRB alleles 1st and/or 3rd exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP set are completely matched with the target sequences or not. We assume that unknown sequences in the first hyperpolymorphic region of the second exon of DRB alleles are conserved within allelic groups and that unknown sequences of codons 87 to 92 are identical with the DRB1*01:01 consensus sequence.

⁵Due to sharing of sequence motifs in codon 38, DRB3*01:14 will also be amplified in primer mixes 77, 78 and 89 in addition to primer mix 93.

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

⁷Individual alleles can give rise to two differently sized specific PCR fragments in primer mixes 73, 75, 77 to 83, 85, 86, 88 and 90 to 93.

⁸Primer mix 73, 80, 87, 88 and 92 to 94 may have a tendency to giving rise to primer oligomer formation.

⁹Primer mix 91 has a tendency of primer oligomer formation and also has an intense primer cloud due to the high number of primers present in the primer mix.

¹⁰The DRB4*01:03:01:02N allele is amplified by primer mix 94, whereas the DRB4*02:01N and DRB4*03:01N null alleles are not amplified by this primer mix.

¹¹Primer mix 96 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.

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INTERPRETATION TABLE																										
HLA-A low resolution SSP typing																										
Amplification patterns of the A*01:01 to A*80:03 alleles																										
		Well ⁶																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Length of spec. PCR product(s)		225 145 120		415 365 255 215 175	235 205	190	505 335 160	200 135	205 175	200 165	75	240 80	500 175 80	190 125	225 175	115 80	205 135 90	380 240	180 140	390 200	375 340	240 210	375 240 65	240 85	495 240 160 75	360
Length of int. pos. control ¹		800	800	1070	800	1070	800	800	1070	800	800	1070	800	1070	1070	1070	1070	1070	1070	800	800	800	800	800	800	1070
5'-primer(s) ²		5'-ATA ³ 363 5'-AgT ³ 123 5'-CCT ³ 103 5'-CTT ³ 98	5'-gCT ³ 48	5'-ATA ³ 363	5'-CTA ³ 98	5'-gCT ³ 317 5'-GCC ³ 144	5'-gTT ³ 368 5'-gCA ³ 176	5'-gTT ³ 368 5'-CTC ³ 98	5'-ACA ³ 102 5'-CTA ³ 98	5'-ACg ³ 266 5'-AAC ³ 261	5'-AAC ³ 261 5'-CTA ³ 98	5'-ggC ³ 385 5'-gga ³ 302 5'-Cgg ³ 301	5'-gCT ³ 423 5'-ggT ³ 415 5'-CCT ³ 103	5'-gCT ³ 423 5'-CTT ³ 98	5'-gCA ³ 219 5'-CAC ³ 98	5'-ggT ³ 362 5'-gAA ³ 203	5'-CCg ³ 355 5'-CTT ³ 41	5'-AgC ³ 418 5'-gAA ³ 203 5'-TTT ³ 180	5'-CAC ³ 98 5'-CTT ³ 41	5'-gga ³ 341 5'-gga ³ 302	5'-CCT ³ 2hdI 5'-CCA ³ 106 5'-TCT ³ 78	5'-CCC ³ 502 5'-AAC ³ 261 5'-TCg ³ 28	5'-TgC ³ 527 5'-TCT ³ 78	5'-CCC ³ 355 5'-gga ³ 341 5'-AAC ³ 261 5'-gCA ³ 176	5'-ggC ³ 341	
3'-primer(s) ³		5'-AgA ³ 545 5'-TCT ³ 203	5'-gTg ³ 292 5'-gga ³ 240	5'-CCT ³ 527 5'-CCA ³ 527	5'-CCg ³ 559 5'-CTg ³ 256	5'-CAA ³ 368 5'-CCC ³ 265	5'-CgT ³ 534 5'-ggg ³ 521 5'-ACA ³ 270	5'-TCT ³ 539 5'-CTT ³ 259	5'-CCA ³ 538 5'-gTT ³ 259	5'-ggC ³ 302	5'-TCg ³ 299	5'-ggg ³ 521 5'-CgT ³ 341	5'-TgT ³ 506 5'-gCA ³ 257	5'-CCg ³ 559 5'-CC ³ 559 5'-gAC ³ 282	5'-gTC ³ 418 5'-gCA ³ 257 5'-TCA ³ 180	5'-CCA ³ 526 5'-TCA ³ 411 5'-CCA ³ 299 5'-TAC ³ 369 5'-ATA ³ 363	5'-TCA ³ 243 5'-CCT ³ 238 5'-CCT ³ 238	5'-CCA ³ 555 5'-gga ³ 317 5'-CAA ³ 290	5'-gTT ³ 259 5'-CTC ³ 256 5'-CCC ³ 256	5'-gAg ³ 397	5'-TgT ³ 506 5'-gAC ³ 282 5'-gAC ³ 265	5'-CAT ³ 524 5'-gAC ³ 355 5'-ggT ³ 97	5'-CAC ³ 570 5'-gAC ³ 282 5'-gAC ³ 265	5'-CCA ³ 555 5'-TCT ³ 299 5'-gTT ³ 292 5'-gTg ³ 292	5'-gTC ³ 418	
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	



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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
HLA-A allele⁴	ser⁵																								
*01:01:01:01-01:01:22, 01:01:24-01:01:47, 01:01:49- 01:01:55, 01:02:01:04N, 01:06-01:07, 01:09-01:11N, 01:16N-01:18N, 01:20, 01:22N-01:27N, 01:29, 01:31N-01:33, 01:35-01:42, 01:44-01:50, 01:52N-01:78, 01:80-01:94, 01:96-01:98, 01:100-01:120, 01:122- 01:125, 01:127-01:130	A1, Null, -																								
*01:01:23, 01:01:48, 01:08, 01:14-01:15N, 01:30, 01:79, 01:99	A1, Null, -	1																							
*01:01:56	-	1			4									w											
*01:12, 01:19	A1, -	1		3																					
*01:13	A1	1			4							11		13		15									
*01:21, 01:126	A1, -	1		3	4																				
*01:28	-	1			4							11				15									
*01:43	-	1			4							10													
*01:51	-	1			4				8			10													
*01:95	-	1			4														17						
*01:121	-	1			4															19					
*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21- 02:01:81, 02:01:83-02:16, 02:17:03-02:22:02, 02:24:01- 02:33, 02:36-02:45, 02:47, 02:49-02:54, 02:57-02:61, 02:63-02:64, 02:66-02:69, 02:71-02:77, 02:79:01- 02:97:02, 02:99, 02:101:01- 02:102, 02:104-02:128, 02:130-02:134, 02:136- 02:148, 02:150-02:168, 02:170-02:236, 02:238- 02:242, 02:244-02:308, 02:310-02:337, 02:339- 02:406, 02:408-02:414, 02:416-02:417	A2, Low A2, A203/A2 A210/A2 A2/blan k, Null, -																								
*02:17:01-02:17:02	A2		2						w																
*02:34-02:35:01, 02:35:03, 02:56:01-02:56:02, 02:62, 02:103	A2			2											13					20		22			
*02:35:02	A2														13					20		22			
*02:46, 02:70	A2			2																20		22			
*02:48, 02:129	A2, -																			20		22			
*02:55	A2/A28			2					8													21		23	
*02:65, 02:407	A2/A19, -			2																19					
*02:78	-		w		4															20		22			
*02:135	-			2											13										24
*02:149	-			2																		21			
*02:169	-			2		4																			
*02:237	-			2												14		16							
*02:243	-			2															18			21			
*02:309	-			2									12		14							21			24
*02:338	-			2	3																				
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
HLA-A allele ⁴	ser ⁵																								
*03:01:01:01-03:01:18, 03:01:20-03:01:22, 03:01:24- 03:07, 03:09-03:11N, 03:13- 03:14, 03:16-03:17:02, 03:20- 03:23:02, 03:25-03:29, 03:31, 03:33-03:35, 03:37- 03:40, 03:42, 03:44-03:49, 03:51-03:56, 03:58, 03:60- 03:62, 03:64-03:71, 03:73- 03:74, 03:76-03:81, 03:83- 03:87, 03:90-03:94, 03:96- 03:106, 03:109-03:110, 03:112-03:134, 03:136- 03:141, 03:143-03:151, 03:153-03:166	A3, A3/blank, Null, -			3										13											
*03:01:19	-			3									12	13											24
*03:01:23, 03:08, 03:32, 03:36N, 03:57, 03:59, 03:72, 03:89, 03:107-03:108, 03:111, 03:142	A3, Null, -			3																					
*03:12	A3			3	4																				
*03:15, 03:19, 03:30	A3			3		5								13											
*03:18, 03:135	-	1			4									13											
*03:24, 03:50	A3, -			3					8					13											
*03:41	-			3																				23	
*03:43, 03:82	-			3										13	15		17								
*03:63	-			3								11		13										23	
*03:75	-													13										23	
*03:88, 11:130 ⁷	-			3	4							11												23	
*03:95	-													13	14	16									
*03:152, 24:92 ⁸	-			3		5																			
*11:01:01-11:09, 11:12- 11:16, 11:18-11:24:02, 11:26- 11:27, 11:29-11:39, 11:41- 11:52Q, 11:54-11:59, 11:61- 11:93, 11:95-11:111, 11:114- 11:129, 11:131-11:138, 11:141-11:142	A11, Null, -				4								11												
*11:10	A11				4				8			11													
*11:11	-				4							11	12												
*11:17, 11:40	-				4						10	11													
*11:25, 11:60	A11, -				3	4								11											
*11:94, 11:112	-	1			4									11											
*11:113	-				4									11		15									
*11:139	-				4	5		7				11													
*23:01:01-23:13, 23:15- 23:56, 23:58	A23, Null, -					5	6																		
*23:14:01-23:14:02, 24:24, 24:71 ⁹	A23, A9, A24, -					5	6	7																	
*23:57	-					5																		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

101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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Lot No.: **63S**

Lot-specific information

Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
HLA-A allele⁴	ser⁵																								
*24:02:01:01-24:11N, 24:13:01-24:13:02, 24:17, 24:20-24:23, 24:25-24:43, 24:45N-24:50, 24:54-24:56, 24:58-24:63, 24:66-24:70, 24:72-24:81, 24:83N-24:91, 24:93, 24:95-24:113, 24:115- 24:137, 24:139-24:187, 24:189-24:203, 24:205- 24:210, 24:212, 24:214- 24:221, 24:223-24:227, 24:229-24:232N	A24, Low A24, A2403/A 24, A9, A24/A9, Null, -					5		7																	
*24:14-24:15, 24:51-24:53, 24:57, 24:64, 24:94, 24:114, 24:138, 24:188, 24:222N, 24:228, C*04:01:03 ¹⁰	A24, Cw4, Null, -					5																			
*24:18, 24:204, 24:213	A24/A3, -					5		7																23	
*24:19, 24:44	A9					5		7				11													
*24:82	-					5		7														21			
*25:01:01-25:04, 25:07- 25:12N, 25:14-25:16, 25:18- 25:22	A25, Null, -								8	9				13											
*25:05	A25								8	9		12	13							20					
*25:06	A25								8	9		12													
*25:13	-								8	9			13												24
*25:17	-									9			13												
*26:01:01-26:01:20, 26:01:22- 26:01:27, 26:08, 26:10- 26:15, 26:17-26:18, 26:20, 26:23-26:28, 26:31-26:33, 26:35-26:43:02, 26:45-26:48, 26:50-26:53, 26:55-26:63, 26:66-26:71N, 26:74-26:77, 26:79-26:85	A26, A10, Null, -								8		10			13											
*26:01:21, 26:04, 26:34, 26:73	A26, -								8		10														
*26:02, 26:29, 26:49	A26, -								8		10			w											
*26:03:01-26:03:02, 26:06, 26:21	A26, -								8			11	13											23	
*26:05	A26								8				13											23	
*26:07:01-26:07:02, 26:64	A26, -										10		13												
*26:09	A26								8		10	12													
*26:16	A26								7		10		13												
*26:19	-				4						10		13	14											
*26:22	A26								8		10		13	14								21			
*26:30	A26								8				13											23	24
*26:54	-								8		10	12	13							20					
*26:65	-								8		10		13												24
*26:72	-				4						10		13												
*26:78	-								8			11												23	
*29:01:01:01-29:06, 29:08N- 29:12, 29:15-29:27, 29:29- 29:38, 29:40-29:47, 29:50- 29:53	A29, Null, -														14										
*29:07, 29:49	A29, -					5	6								14										
*29:13, 29:39	-														14			17							
*29:14	-														14		16								
*29:28	-								8						14										
*29:48	-														14					18					
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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Lot-specific information

Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
HLA-A allele⁴	ser⁵																								
*30:01:01-30:04:02, 30:06-30:07, 30:09-30:20, 30:22-30:54, 30:56-30:74	A30, Null, -															15									
*30:08	A30				4											15									
*30:55	-													13	15										
*31:01:02-31:02, 31:05-31:07, 31:09-31:28, 31:30-31:34, 31:36-31:40, 31:42-31:61, 31:63-31:74	A31, Null, -																16								
*31:03	A31											12		14	16										
*31:04	A31											12		14	16										24
*31:08, 33:53 ¹¹	A31/A24, -					5										16									
*31:29	-					5	6									16									
*31:35	-														15	16	17								
*31:41	-															16						21			
*31:62	-															16							22		
*32:01:01-32:01:13, 32:01:15-32:02, 32:07-32:14, 32:16-32:37, 32:39-32:41, 32:43-32:57	A32, Null, -									9								17							
*32:01:14, 32:03, 32:38, 74:07 ¹²	A32, A74, -																	17							
*32:04	A32/A3			3						9															
*32:05	A32					5										16	17								
*32:06	A32									9								17				21			
*32:15	A32								8	9								17	18						
*32:42	-									9				14				17							
*33:01:01-33:01:07, 33:03:01-33:12, 33:14-33:18:02, 33:20-33:21, 33:23, 33:25-33:37, 33:39-33:47, 33:49-33:50, 33:52, 33:54-33:68	A33, -																		18						
*33:13, 33:48	-									10								18							
*33:19	-					5	7											18							
*33:22	-																	18				21			
*33:24	-																	18						23	
*33:51	-								8									18							
*34:01:01-34:01:02, 34:05-34:06, 34:11	A34, A10, -								8			11	12												
*34:02:01-34:03, 34:07, 34:10N	A34, Null, -			3					8			11	12												
*34:04	A34			3					8			11	12	14											
*34:08	A34			3					8			11	12	13											
*34:09	-			3					8				12												24
*36:01, 36:03, 36:05	A36, -	1																					22		
*36:02	A36	1	3																				22	23	
*36:04	A36	1			4																		22		
*43:01	A43									10		12	13												
*66:01, 66:04-66:05, 66:07-66:08, 66:11, 66:13-66:15, 66:17-66:19	A66, A26, -								8			11	13												
*66:02-66:03, 66:16	A66, A10, -								8			12													24
*66:06	A66								8			11	13									21			
*66:09	-								8			11	13	14								21			
*66:10	-								8			11	w												
*66:12	-								8				13												24
*66:15	-								8				13												
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.701-24/06– including *Taq* pol., IFU-01
101.701-24u/06u – without *Taq* pol., IFU-02

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Lot No.: **63S**

Lot-specific information

Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
HLA-A allele ⁴	ser ⁵																								
*68:01:01:01-68:04, 68:06-68:12, 68:13:02-68:14, 68:16-68:19, 68:21:01-68:24, 68:26-68:28, 68:30-68:44, 68:46-68:65, 68:67-68:70, 68:72-68:83, 68:85-68:100	A68, A28, Null, -								8												20				
*68:05, 68:15, 68:20	A68								8												20			23	
*68:13:01, 68:66	A68, -				4				8												20				
*68:25	A68								8												19	20			
*68:29	A68								8										18		20	21			
*68:45	-							7	8												20				
*68:71	-								8					13							20				
*68:84	-								8		10										20				
*69:01	A69								8														21		
*74:01-74:03, 74:05-74:06, 74:08-74:12N, 74:14N-74:17	A74, Null, -																				19				
*74:04	A74																		18	19					
*74:13	-													13						19					
*80:01:01:01-80:01:01:02, 80:03	A80, -								6															23	
*80:02	-								6			11													
B*07:81, B*08:52, B*18:67, B*38:41, B*53:05, B*53:16	B53, -												9												
B*18:27	-								6																
C*03:174, C*08:69, C*16:56	-				4																				
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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-A low resolution SSP typing. In addition, wells number 2, 4, 6, 8, 9, 10, 12, 14 and 19 to 23 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band.

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

⁴The sequence of the A*0105N has been shown to be identical to A*01:04N.

The A*01:34N allele has been renamed A*01:01:38L

The A*020116 allele has been renamed to A*02:134.

The A*020120 has been renamed to A*02:01:18.

The sequence of the A*02:01:82 allele has been shown to be identical to A*02:01:84.

The sequence of the A*0223 allele has been shown to be identical to A*02:22:01.

The sequence of the A*0298 allele has been shown to be identical to A*02:96.

The A*02:100 allele has never been assigned.

The A*1128 allele has been renamed to A*11:15:02.

The A*11:53 allele has been shown to be identical to the corrected A*11:02:01.

The sequence of the A*2401 allele has been shown to be in error.

The sequence of the A*2412 allele has been shown to be identical to A*24:08.

The A*2416 allele has been renamed to A*31:08.

The A*2465 allele has been renamed to A*24:13:02.

The A*24:211 allele has been renamed to A*24:135:02.

The A*26:44 allele has been renamed to A*26:43:02.

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Lot No.: 63S**Lot-specific information**

The sequence of the A*3005 allele has been shown to be identical to A*30:04.

The A*3021 allele has been renamed to A*30:11:02.

The sequence of the A*31011 allele has been shown to be identical to A*31:01:02.

The sequence of the A*3302 allele has been shown to be identical to A*33:03:01.

The sequence of the A*33:38 allele has been shown to be identical to A*33:44.

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

⁶The primer pairs in wells 1, 2, 11, 14 and 15 will in many samples give rise to two or three HLA-specific PCR fragments.

⁷The A*03:88 and the A*11:130 alleles will give rise to identical amplification patterns. These two alleles can be separated by the respective high resolution SSP primer sets.

⁸The A*03:152 and the A*24:92 alleles will give rise to identical amplification patterns. These two alleles can be separated by the respective high resolution SSP primer sets.

⁹The A*23:14:01-23:14:02 and the A*24:24 and 24:71 alleles will give rise to identical amplification patterns. These alleles can be separated by the respective high resolution SSP primer sets.

¹⁰The 24:14-24:15, 24:51-24:53, 24:57, 24:64, 24:94, 24:114, 24:138, 24:188, 24:222N, 24:228 and the C*04:01:03 alleles may be distinguished by the different sizes of the specific PCR products generated by primer mix 5.

¹¹The A*31:08 and A*33:53 alleles will give rise to identical amplification patterns. These two alleles can be separated by the respective high resolution SSP primer sets.

¹²The A*32:01:14, 32:03, 32:38 and the A*74:07 alleles will give rise to identical amplification patterns. These alleles can be separated by the respective high resolution SSP primer sets.

‘w’, may be weakly amplified.

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Lot-specific information

INTERPRETATION TABLE																																															
HLA-B low resolution SSP																																															
Amplification patterns of the B*07:02 to B*83:01 alleles																																															
Well																																															
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48																							
Length of spec. PCR product(s)	110	215	140	130	185	180	290	165	165	180	105	280	195	105	115	80	150	140	60	210	170	110	395	160																							
Length of int. pos. control ¹	800	1070	1070	800	800	800	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	800	1070	1070	800	800	1070	1070	1070																							
5'-primer(s) ²	5'-TgA ³ 527	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	5'-TCT ³ 142	5'-ggA ³ 45	5'-Cgg ³ 161	5'-gCT ³ 167	5'-TCA ³ 355	5'-gAC ³ 206	5'-ggA ³ 45	5'-TCT ³ 142	5'-ggC ³ 409	5'-gAA ³ 246	5'-ggC ³ 44	5'-ggC ³ 44																							
3'-primer(s) ³	5'-gCT ³ 605	5'-TgA ³ 272	5'-gCC ³ 312	5'-CgT ³ 193	5'-TAT ³ 246	5'-TAT ³ 246	5'-Tgg ³ 165	5'-CCT ³ 206	5'-TCC ³ 266	5'-CTC ³ 559	5'-Tgg ³ 272	5'-TAT ³ 3rd	5'-gTC ³ 301	5'-ATC ³ 309	5'-TCT ³ 234	5'-TCT ³ 204	5'-gCT ³ 463	5'-gGC ³ 302	5'-gTT ³ 259	5'-ggg ³ 311	5'-ggT ³ 544	5'-gga ³ 317	5'-TgC ³ 272	5'-ggC ³ 302																							
Well No.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48																							



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Lot-specific information

Well No.		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
HLA-B allele ^{4,14}	ser. ⁵																										
*07:02:01-07:02:31, 07:02:33-07:02:38, 07:05:01-07:06, 07:10, 07:12-07:15, 07:18:01-07:18:02, 07:21-07:23, 07:26, 07:29-07:31, 07:34-07:35, 07:39, 07:41-07:46, 07:49N, 07:52, 07:55-07:59, 07:61-07:64, 07:66-07:68:03, 07:70-07:72, 07:74-07:76, 07:79-07:80, 07:82-07:83, 07:86-07:99, 07:101-07:121, 07:124-07:130, 07:132, 07:135N-07:138, 07:140-07:145, 07:147-07:148, 07:150-07:154, 07:156-07:161N, 07:163, 07:166-07:173, 07:175-07:178, 07:181N, 07:183-07:190	B7, B7/blank, B7/B42, Null, -	25																								48	
*07:02:32	-	25				29																					48
*07:03, 07:08, 07:16, 07:32, 07:37	B703/B7, B7/blank	25																									48
*07:04, 07:25, 07:146	B7, -	25													38												48
*07:07, 07:77	B7, -	25																									48
*07:09, 07:11, 07:17, 07:162	B7, -	25											36														48
*07:19, 07:33, 07:40, 07:53, 07:122, 07:139, 07:165	B7/42, -																										48
*07:20, 07:24, 07:131	B7/blank, -	25		27																							48
*07:27	-	25										35									44						
*07:28	B7	25				30																					48
*07:36, 07:81, 07:149	B7, -	25																									
*07:38	-	25																									
*07:47	B7	25																									48
*07:48, 07:51, 07:155, 07:164	B7, -																										48
*07:50	-	25											35														48
*07:54, 07:123	B7, -	25																									48
*07:60	-			27																							48
*07:65	-	25																		42							
*07:69, 07:85	-	25																							47	48	
*07:73	-	25															40										48
*07:78	-	25										34															48
*07:84	-	25																									48
*07:100	-			27																							48
*07:133	-	25																									48
*07:134	-	25																		42							48
*07:174	-	25																									48
Well No.		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		

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 101.701-24u/06u – without *Taq* pol., IFU-02

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Lot-specific information

49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	Well No.	
																							ser. ⁵	HLA-B allele ^{4,14}	
			52																			71	72	B7, B7/blank , B7/B42, Null, -	*07:02:01-07:02:31, 07:02:33-07:02:38, 07:05:01-07:06, 07:10, 07:12-07:15, 07:18:01-07:18:02, 07:21-07:23, 07:26, 07:29-07:31, 07:34-07:35, 07:39, 07:41-07:46, 07:49N, 07:52, 07:55-07:59, 07:61-07:64, 07:66-07:68:03, 07:70-07:72, 07:74-07:76, 07:79-07:80, 07:82-07:83, 07:86-07:99, 07:101-07:121, 07:124-07:130, 07:132, 07:135N-07:138, 07:140-07:145, 07:147-07:148, 07:150-07:154, 07:156-07:161N, 07:163, 07:166-07:173, 07:175-07:178, 07:181N, 07:183-07:190
			52																			71	72	-	*07:02:32
																						71	72	B703/B7 , B7/blank	*07:03, 07:08, 07:16, 07:32, 07:37
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HLA-B allele ⁴	ser. ⁵																									
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 101.701-24u/06u – without *Taq* pol., IFU-02

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HLA-B allele ⁴	ser. ⁵																								
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*15:42	B15							31												43					
*15:43, 15:256	B15, -							31					36							43					
*15:45	B62			27				31												43					
*15:46	-				28			31	32				36							43					
*15:48, 15:150, 15:188, 15:248	B62, -							31												43					
*15:53, 15:212	-				28				32				36							43					
*15:54	B72								32			35	36							43					
*15:55	B15			27				31					36							43					
*15:57	B62							31					36							43					
*15:62	-								32			35	36					41		43					
*15:64:01-15:64:02	B71, -								32			35	36							43					
*15:66	B62							31					36		38					43					
*15:68	-			27								35	36												
*15:69	B72								32			35	36							43		45			
*15:73	B62							31												43					
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*15:80	B70								32				36		38			41		43					
*15:83	B62							31	32											43					
*15:85	B62							31					36					41		43					
*15:86	-							31												43					
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*15:116	B62							31					36							43					
*15:124	B71								32				36		38					43					
*15:137	-							31												43					
*15:138	-	25						31					36							43					
*15:142	-		26					31					36							43					
*15:143	-							31	32				36							43					
*15:144	-							31					36					41		43					
*15:154, 15:165	-							31					36					41		43					
*15:161	-								32				36	37	38					43					
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*15:189	-						30	31					36		38					43					
*15:194	-							31					36					41		43					
*15:202, 15:239	-							31					36						42	43					
*15:222	-									33			36		38					43					
*15:224	-							31												43					
*15:230	-	25						31		33					38					43					
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													62								69	71			B72		*15:54
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					w								62								69	71			B62		*15:57
													62									71			-		*15:62
																						71			B71, -		*15:64:01-15:64:02
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													62								69	71			-		*15:68
													62									71			B72		*15:69
													62			65	67				69	71			B62		*15:73
													62									71			B72		*15:74
			52					w													69	71			-		*15:76
													62								69	71			B62		*15:77
																						71			B70		*15:80
					54								62									71			B62		*15:83
	50												62								69	71			B62		*15:85
													62	64								71			-		*15:86
								57														70			B77		*15:89
													62									71			-		*15:91, 15:131
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												61	62									71			-		*15:106
49													62									71			B62		*15:116
49																						71			B71		*15:124
									w				62								69	71			-		*15:137
													62									71			-		*15:138
													62								69	71			-		*15:142
												61									69	71			-		*15:143
								57													69	71			-		*15:144
													62								69	71			-		*15:154, 15:165
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																					69	71			-		*15:180
																						71			-		*15:186
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																						70			-		*15:222
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49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72			Well No.	

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HLA-B allele ⁴	ser. ⁵																								
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*15:243	-								32	33					38					43					
*15:253	-								32		35									43					
*15:255	-								32			36													
*15:259	-							31	32			35	36							43					
*15:268	-							31		33		36			38					43					
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*18:04	B18											36			39				42						
*18:09	B18											36			39										
*18:12	B18											36			39				42						
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*18:56	-											36	37		39				42						
*18:66	-											36			39										
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*27:01	B27					29											40								
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Well No.		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

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													62							69	71			-	*15:241	
													62									71			-	*15:243
													62									71			-	*15:253
			52										62									71			-	*15:255
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																			68			70		B18	*18:09	
													62									71		B18	*18:12	
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HLA-B allele ⁴	ser. ⁵																									
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*27:25	B27																40									
*27:29	B27					29						35					40									
*27:30	B27																40	41								
*27:33	-																40									
*27:41	-					29						36					40									
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*27:62	-																40									
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Well No.		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	

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HLA-B allele ⁴	ser. ⁵																									
*35:01:01:01-35:01:09, 35:01:11-35:01:37, 35:07-35:08:04, 35:08:06, 35:11:01-35:11:03, 35:15, 35:20:01-35:20:02, 35:23, 35:29:01-35:29:02, 35:40N-35:42:01, 35:48, 35:50, 35:52, 35:54, 35:57, 35:61:01-35:61:02, 35:77-35:78, 35:82, 35:90-35:94, 35:100-35:101:02, 35:103-35:105, 35:107-35:108:02, 35:110-35:112, 35:116, 35:120-35:124, 35:126, 35:130N-35:134N, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173N, 35:175-35:178, 35:180, 35:187, 35:189, 35:192, 35:194, 35:196-35:197, 35:200, 35:202, 35:206, 35:208-35:209, 35:212, 35:215-35:216N, 35:219, 35:224-35:225, 35:227-35:228	B35, Null, -											36						41	42							
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*35:08:05	-												36					41	42							
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																							ser. ⁵	HLA-B allele ⁴
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																							B35, Null, -	*35:02:01-35:03:02, 35:03:04-35:04:01, 35:04:03, 35:06, 35:12:01-35:12:03, 35:33-35:34, 35:36, 35:39, 35:55, 35:59, 35:65Q, 35:70, 35:74, 35:83-35:85, 35:95, 35:98, 35:106, 35:128-35:129N, 35:136, 35:149-35:150, 35:152-35:153, 35:155-35:156, 35:160, 35:162, 35:167, 35:172, 35:179, 35:181-35:184, 35:193, 35:195, 35:201, 35:204, 35:211, 35:214, 35:220-35:221, 35:223
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49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	Well No.

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*35:13	B35																		41	42						
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*35:19	B35/blank												36						41							
*35:21, 35:24:01-35:24:02, 35:188, 35:190	B35/B78, -												36						41	42						
*35:22, 35:199	B35, -				27															42						
*35:25, 35:49, 35:210	B35, -												36						41							
*35:26	B35							30					36						41							
*35:27, 35:203	B35, -												36						41							
*35:35	B35												36						41	42			45			
*35:38, 35:169	B35, -																		41	42						
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*35:154	-				28														41							
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*35:164	-				27														41	42						
*35:185	-												36							42						
*35:186	-												36						41	42						
*35:191	-												36						41	42						
*35:198	-																		41							
*35:207	-				28								36						41							
*35:218	-			26									36						41	42						
*35:222	-												36						41	42						
*35:229	-												36						41	42						
*37:01:01-37:01:07, 37:01:09, 37:03N, 37:06, 37:13, 37:15-37:21, 37:23-37:27, 37:30N-37:33N, 37:36	B37, Null, -																	37		41			44			
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						55													68			71		B35/B78, -	*35:21, 35:24:01-35:24:02, 35:188, 35:190
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																			68	69		71		-	*35:44
						53													68			71		B35	*35:45, 35:71
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				53															68			71		-	*35:115
												61										71		-	*35:154
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															64				68	69		71		-	*35:185
				52			56															71		-	*35:186
																						71		-	*35:191
																						71		-	*35:198
		50										62										71		-	*35:207
																			68			71		-	*35:218
																			68					-	*35:222
				52			56												68			71		-	*35:229
				53								62										70		B37, Null, -	*37:01:01-37:01:07, 37:01:09, 37:03N, 37:06, 37:13, 37:15-37:21, 37:23-37:27, 37:30N-37:33N, 37:36
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49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72		Well No.

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HLA-B allele ⁴	ser. ⁵																								
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*38:02:03	-																					45		47	
*38:03	B38					29						35										45	46		
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*38:17	-					29								37							44	45	46	47	
*38:20	-					29												41				45	46	47	
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*39:01:09, 39:12, 39:45, 39:72, 39:76, 39:78	B3901/B39, -																					45		47	48
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													62								70			B37/B27	*37:02
				53		55							62								70			B37, -	*37:04:01-37:04:02
				53									62									71		Blank	*37:05
													62								70	72		-	*37:07
				53															68		70			B37	*37:08
				53									62								70			B37, -	*37:10, 37:22, 37:29
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				53									62								70			-	*37:28
				53							60		62								70			-	*37:34
				53									62								70			-	*37:35
																					70			B38, Null, -	*38:01:01-38:02:02, 38:02:04-38:02:05, 38:08-38:09, 38:11-38:16, 38:18-38:19, 38:21, 38:23-38:24, 38:27-38:29, 38:31-38:32, 38:34N, 38:38-38:43
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49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72		Well No.

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HLA-B allele ⁴	ser. ⁵																									
*39:01:15	-					29																	45	47	48	
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*39:19:02	B39					29													42				45	47	48	
*39:22	B39					29																	45	47	48	
*39:24:02	-					29																	45		47	
*39:36	-					29																			47	48
*39:39:01	B39					29						35											45		48	
*39:39:02	-											35											45		48	
*39:42	B39					29												41					45	47	48	
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*40:06:01:01-40:06:04, 40:06:06-40:06:07, 40:70	B61, -																								48	
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																								-	*39:01:15
													62										71	B3902/B39	*39:02:01, 39:08
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	50												61										71	B61/blank	*40:08

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HLA-B allele ⁴	ser. ⁵																									
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*40:10:02, 40:135	-				28																					
*40:12	B60/B48								32			35								43						
*40:13	-																									
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49													62										71		B40/B15	*40:21
49	?											61	62										71		B60, Null, -	*40:22N, 40:33, 40:36, 40:42-40:43, 40:49, 40:54-40:55, 40:61-40:63, 40:65, 40:67, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:108, 40:112-40:114, 40:116, 40:118N, 40:123, 40:124:02-40:126, 40:128, 40:130, 40:134, 40:141, 40:151, 40:154, 40:156, 40:163, 40:168, 40:171, 40:175, 40:179, 40:182, 40:187, 40:191, 40:193-40:196, 40:199, 40:204, 40:207, 40:212-40:213, 40:216N-40:218, 40:221, 40:223, 40:227-40:228, 40:234-40:236, 40:238
49												61	62										71		B40	*40:23
49	?											61											71		B40, B60, -	*40:25, 40:69, 40:106
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49	?											61	62										71	72	B60, -	*40:30, 40:34, 40:160:01-40:160:02
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	Well No.		

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49	?											61	62									71		B60, -	*40:38, 40:52, 40:222
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49	?											62									70			B40, -	*40:47, 40:188
49	?											61	62				67					71		B60	*40:48
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49	?											61	62									71		B60, -	*40:74, 40:149, 40:210
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	?								58	60		62										70		-	*40:109
	?											62										70		-	*40:110
49	?								58	60		62										70		-	*40:117
49	?		53									61	62									71		-	*40:132, 40:178
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49	?	52										61										71		-	*40:166
49												61	62									71		-	*40:170
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49	?											61	62									71		-	*40:183, 40:198
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49												62										71		-	*40:185
49	?											62										71		-	*40:208
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49												61	62									71		-	*40:215
49	?	51	53									61	62									71		-	*40:231
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HLA-B allele ⁴	ser. ⁵																									
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				54								61	62									71		B45, -	*41:09, 45:02-45:03 ¹⁰
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		51	52	54																		71		B42	*42:04
		51	52																			71	72	B42	*42:05:01-42:05:02
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		51	52																			71	72	B42	*42:09
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49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72		Well No.

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HLA-B allele ⁴	ser. ⁵																									
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				53									62								70			B44, Null, -	*44:03:01-44:03:06, 44:03:08-44:03:15, 44:03:17-44:03:18, 44:04-44:05:04, 44:13, 44:26, 44:28:01-44:30, 44:32, 44:35-44:36, 44:38-44:39, 44:42, 44:45, 44:51, 44:56N, 44:58N, 44:61N, 44:69-44:70, 44:76-44:79, 44:82, 44:85, 44:88, 44:92, 44:94, 44:96, 44:98, 44:105, 44:107-44:109, 44:114-44:115, 44:117, 44:120, 44:122-44:125, 44:128, 44:133, 44:136, 44:139, 44:141, 44:143, 44:147, 44:153-44:155, 44:157, 44:159-44:161, 44:163-44:165, 44:167, 44:174-44:175
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49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72		Well No.

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*44:127	-				28													41							
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*44:140	-				28							35						41							
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*44:150	-	25			28		30											41							
*44:156	-		26									35						41							
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*45:01, 45:05, 45:07, 45:11-45:14	B45, -				28				32			35													48
*45:04	B21				28				32																48
*45:06	B45				28				32			35													48
*45:08	-				28				32																48
*45:09	-				28				32				36	37											48
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*46:01:07	-								31			36													
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*46:17	-								31			36	37												
*46:18	-								31																
*46:32	-								31			36													
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*47:01:01:01-47:01:02, 47:06-47:08	B47, -				28																				
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 101.701-24u/06u – without *Taq* pol., IFU-02

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			52	53		56						61	62	63								71		-	*44:90		
				53				58	60			62	63									70		-	*44:95		
			52	53		56						62	63									70		-	*44:97		
				53								62	63									70		-	*44:106		
				53								62	63											-	*44:127		
				53							61	62	63									71		-	*44:131		
				53								62			65							70		-	*44:140		
				53								62								69	70			-	*44:146		
												62										70	72	-	*44:150		
				53								62										70		-	*44:156		
		51										62										70	72	-	*44:166		
49				53								62	63									70		-	*44:169		
				54								61	62			65						71		B45, -	*45:01, 45:05, 45:07, 45:11-45:14		
				54								61	62			65						71		B21	*45:04		
		52		54								61	62			65						71		B45	*45:06		
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				54								61	62									71		-	*45:10		
			52			55															69	71		B46, Null, -	*46:01:01-46:01:06, 46:01:08-46:01:09, 46:04-46:05, 46:07N, 46:09-46:10, 46:14-46:16, 46:20, 46:22-46:24, 46:26-46:31, 46:34-46:38		
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49			52			55																	71			*46:06	
				52		55										65							71	B22		*46:11	
				52		55															69	71		-	*46:12		
				52		55															69	71		-	*46:17		
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				52		55			w													69	71		-	*46:32	
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HLA-B allele ⁴	ser. ⁵																									
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*49:02	B49				28																					
*49:03	B49																									
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*49:07	-				28						34															
*49:18	-				28					33																
*49:20	-				28							35														
*49:21	-				28																					
*49:25	-			26																						
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*50:09, 50:20	-				28																					48
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*50:15	-				28																					48
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									58	59			62									70		-		*49:18
									58	59			62			65						70		-		*49:20
									58	59			62			65						70		-		*49:21
									58	59			62			65						70		-		*49:25
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									59			61	62									71		-		*50:14
									59			61				65						71		-		*50:15
												61	62			65						71		-		*50:17
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49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72		Well No.	

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HLA-B allele ⁴	ser. ⁵																									
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*51:10	B51																								48	
*51:15	-																									
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*51:62	-																									
*51:64	-				27					33																
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																							ser. ⁵	HLA-B allele ⁴	
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										59	60								68		70			B51	*51:01:09
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					54	55					60								68		70			B51, -	*51:04, 51:46, 51:56:01-51:56:02, 51:139
					54						60								68		70			B51, -	*51:06:01-51:06:02, 51:59, 51:135
					54					59	60								68		70			B51, Null, -	*51:08, 51:20, 51:44N, 51:141
					54						60								68		70			B51	*51:10
											60					65			68		70			-	*51:15
					54					59	60								68		70			B51	*51:24:02
					54					59	60								68		70			B51	*51:36
					54					59	60								68		70			B51, -	*51:37, 51:63
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					54						60								68		70			-	*51:45
					54					59	60								68	69	70			-	*51:61:01-51:61:02
					54						60					65		67	68		70			-	*51:62
					54						60								68		70			-	*51:64
					54					59	60								68		70			-	*51:68
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	Well No.	

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HLA-B allele ⁴	ser. ⁵																									
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*52:20	-									33																
*52:21	-									33																
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*53:02	B53												36					41								
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*53:04, 53:07, 53:19	B53, -																	41								
*53:06	B53/B51												36					41								
*53:14	-			27									36													
*53:15	-												36					41								
*53:17:01-53:17:02	-												36					41								
*53:22	-												36	37				41								
*53:28	-									33			36					41								
*53:30, 57:45, 57:51	-				28								36					41								
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										59	60								68		70			-	*51:93, 51:144	
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					54				58	59	60										70			-	*51:112	
											60								68		70			-	*51:148	
										59	60		62									70		B52, -	*52:01:01:01-52:01:01:02, 52:01:03, 52:01:06-52:01:08, 52:01:11-52:01:14, 52:01:16- 52:01:17, 52:04-52:05, 52:07- 52:08, 52:10:01-52:13, 52:15, 52:17-52:18, 52:22-52:24, 52:27- 52:31	
					54					59	60		62									70		B52, -	*52:01:02, 52:01:04, 52:01:09, 52:02:01-52:03, 52:06:01- 52:06:02, 52:09	
										59	60		62									70		B52, -	*52:01:05, 52:01:15, 52:14	
										59	60		62									70		-	*52:01:10	
										59	60		62									70		-	*52:16	
					54					59	60		62									70		-	*52:19	
										59			62									70		-	*52:20	
					54					59	60		62								69	70		-	*52:21	
										59	60		62			65						70		-	*52:25	
										59	60		62									70		-	*52:26	
											60								68			70		B53, -	*53:01:01-53:01:08, 53:05, 53:08:01-53:08:02, 53:10, 53:16, 53:18, 53:20-53:21, 53:23-53:27, 53:29	
					55						60								68		70			B53	*53:02	
											60								68		70			B53/B35	*53:03, 53:09, 53:11-53:13	
											60								68		70			B53, -	*53:04, 53:07, 53:19	
					54	55					60								68		70			B53/B51	*53:06	
											60								68		70			-	*53:14	
											60								68		70	72		-	*53:15	
											60		62								70			-	*53:17:01-53:17:02	
					53						60									68		70		-	*53:22	
						55					60		62									70		-	*53:28	
									58		60											70		-	*53:30, 57:45, 57:51	
					52						56				63	64							71		B54, Null, -	*54:01:01, 54:01:03-54:02, 54:05N, 54:07-54:08N, 54:10, 54:13, 54:16-54:19, 54:21-54:25, 54:27-54:28
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72		Well No.	

101.701-24/06– including *Taq* pol., IFU-01
101.701-24u/06u – without *Taq* pol., IFU-02

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Lot No.: **63S**

Lot-specific information

Well No.		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
HLA-B allele ⁴	ser. ⁵																									
*54:01:02, 55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48, 55:50, 55:57 ¹¹	B55, B54, -																									
*54:03	B22																									
*54:04, 54:15	B54, -																									
*54:06	-												36													
*54:09, 54:14	-												36													
*54:11	B54																								48	
*54:12	-																									
*54:20	-																									
*54:26	-										34															
*55:01:01-55:01:06, 55:01:08-55:01:10, 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, Null, -																									
*55:04, 55:08, 55:13, 55:27, 55:46, 55:49, 56:01:05, 56:15, 56:19N, 56:22 ¹²	B55, B56, Null, -																									
*55:09, 55:24	B22, B55										34															
*55:14	-												36					41								
*55:17, 55:28, 55:58	B55, -																									
*55:18	-											35														
*55:20	B22								32																	
*55:21	B55																									
*55:22	B22										34															
*55:23, 55:32, 56:18, 56:31-56:32 ¹³	B55, -												36													
*55:34	-																									
*55:40	-																									
*55:51	-				27																					
*55:56	-								32																	
*56:01:01-56:01:04, 56:08, 56:14, 56:16, 56:20:01, 56:24, 56:26-56:30, 56:34-56:36, 56:38N	B56, Null, -																									
*56:02, 56:04	B56																									
*56:03	B22/15												36													
*56:05:01	B56										33															
*56:05:02	B56										33															
*56:06	B78										33								42							
*56:07	B56																									
Well No.		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	

101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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Lot No.: **63S**

Lot-specific information

49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	ser. ⁵	Well No. HLA-B allele ⁴
			52				56								64							71		B55, B54, -	*54:01:02, 55:01:07, 55:02:01- 55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41- 55:43, 55:47-55:48, 55:50, 55:57 ¹¹
			52				56							63	65							71		B22	*54:03
			52				56							63								71		B54, -	*54:04, 54:15
			52				56							63						69		71		-	*54:06
			52				56							63								71		-	*54:09, 54:14
			52				56							63								71		B54	*54:11
			52				56		58					63	64							70		-	*54:12
			52				56			59				63	64							71		-	*54:20
			52				56							63								71		-	*54:26
			52				56			59					64							71		B55, Null, -	*55:01:01-55:01:06, 55:01:08- 55:01:10, 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
			52				56															71		B55, B56, Null, -	*55:04, 55:08, 55:13, 55:27, 55:46, 55:49, 56:01:05, 56:15, 56:19N, 56:22 ¹²
			52				56			59												71		B22, B55	*55:09, 55:24
			52				56										66					71		-	*55:14
			52				56			59												71		B55, -	*55:17, 55:28, 55:58
														62	64							71		-	*55:18
			51	52		54	56															71		B22	*55:20
			52				56			w					64						69	71		B55	*55:21
			52				56															71		B22	*55:22
			52				56															71		B55, -	*55:23, 55:32, 56:18, 56:31- 56:32 ¹³
			52				56							62	64							71		-	*55:34
			52				56			59				62	64							71		-	*55:40
			52				56															71		-	*55:51
			52			54	56								64							71		-	*55:56
			52				56									65						71		B56, Null, -	*56:01:01-56:01:04, 56:08, 56:14, 56:16, 56:20:01, 56:24, 56:26-56:30, 56:34-56:36, 56:38N
			52				56									65		67				71		B56	*56:02, 56:04
			52				56													69		71		B22/15	*56:03
			52				56			59					64							71		B56	*56:05:01
			52				56			59												71		B56	*56:05:02
			52				56			59					64						w	71		B78	*56:06
			52				56									65						70		B56	*56:07
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72		Well No.

101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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Lot No.: **63S**

Lot-specific information

Well No.		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
HLA-B allele ⁴	ser. ⁵																									
*56:09	B56												36					41								
*56:10	B55																									
*56:11-56:12	B56, B22																	41								
*56:13	B56								32																	
*56:17, 56:33	B56, -																									
*56:20:02	-																								48	
*56:21	-											33														
*56:23	-																									
*56:25, 56:37	-																									
*56:39	-																									
*57:01:01-57:01:04, 57:01:06-57:01:14, 57:06, 57:08, 57:10, 57:15-57:16, 57:18-57:20, 57:22-57:23, 57:25-57:27, 57:29-57:30, 57:33-57:38, 57:40-57:41, 57:43-57:44, 57:48-57:50, 57:52-57:56, 57:58, 57:60-57:62, 57:64	B57, -												36					41								
*57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47	B57, -												36													
*57:02:01-57:03:02, 57:17, 57:28N, 57:32, 57:39, 57:42, 57:46, 57:57, 57:63	B57, Null, -																	41								
*57:04	B57							30										41								
*57:05	B57																	41								
*57:07	B57																	41								
*57:09	B57								32									41								
*57:12	B57																	41								
*57:14	-												36					41								
*57:24	-												36					41								
*57:59	-												36					41								
*58:01:01-58:01:02, 58:01:04-58:01:12, 58:04-58:05, 58:10N-58:15, 58:19, 58:21-58:24, 58:29, 58:31N-58:33, 58:35, 58:37, 58:39N-58:40, 58:42	B58, Null, -												36					41								
*58:01:03, 58:02, 58:06, 58:16, 58:25-58:26, 58:38	B58, -												36													
*58:07	B58												36	37												
*58:08:01	B17/B5											33														
*58:08:02	-											33														
*58:09	B17												36					41								
*58:17N	Null												36					41								
*58:18	-				27								36													
*58:20	-																							45		
Well No.		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	

101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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Lot No.: **63S**

Lot-specific information

49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	ser. ⁵	Well No. HLA-B allele ⁴
			52				56															71		B56	*56:09
			52				56							64			67					71		B55	*56:10
			52				56															71		B56, B22	*56:11-56:12
			52		54		56									65						71		B56	*56:13
			52				56									65						71		B56, -	*56:17, 56:33
			52				56									65						71		-	*56:20:02
			52				56			58	59											70		-	*56:21
															64							71		-	*56:23
			52				56				59					65						71		-	*56:25, 56:37
			52				56	w								65						71		-	*56:39
											60						66					70		B57, -	*57:01:01-57:01:04, 57:01:06-57:01:14, 57:06, 57:08, 57:10, 57:15-57:16, 57:18-57:20, 57:22-57:23, 57:25-57:27, 57:29-57:30, 57:33-57:38, 57:40-57:41, 57:43-57:44, 57:48-57:50, 57:52-57:56, 57:58, 57:60-57:62, 57:64
											60						66					70		B57, -	*57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47
											60						66					70		B57, Null, -	*57:02:01-57:03:02, 57:17, 57:28N, 57:32, 57:39, 57:42, 57:46, 57:57, 57:63
											60						66					70		B57	*57:04
			50								60						66					70		B57	*57:05
											60						66					70		B57	*57:07
						53					60						66					70		B57	*57:09
						53					60						66					70		B57	*57:09
											60						66					71		B57	*57:12
							55				60						66					70		-	*57:14
						53					60						66					70		-	*57:24
49											60						66					70		-	*57:59
											60							67				70		B58, Null, -	*58:01:01-58:01:02, 58:01:04-58:01:12, 58:04-58:05, 58:10N-58:15, 58:19, 58:21-58:24, 58:29, 58:31N-58:33, 58:35, 58:37, 58:39N-58:40, 58:42
											60							67				70		B58, -	*58:01:03, 58:02, 58:06, 58:16, 58:25-58:26, 58:38
											60							67				70		B58	*58:07
						54					59	60						67				70		B17/B5	*58:08:01
											59	60						67				70		-	*58:08:02
							55				60							67				70		B17	*58:09
											60							67				70		Null	*58:17N
											60							67				70		-	*58:18
											60							67				70		-	*58:20
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72		Well No.

101.701-24/06– including *Taq* pol., IFU-01
101.701-24u/06u – without *Taq* pol., IFU-02

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Lot No.: **63S**

Lot-specific information

Well No.		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
HLA-B allele ⁴	ser. ⁵																								
*58:27	-																								
*58:28, 58:34	-																	41							
*58:36	-											36						41							
*59:01:01:01-59:01:01:02, 59:05	B59, -																								
*59:02-59:03	B59, -																								
*59:04	-																								
*67:01:01, 67:03	B67, -					29																45		48	
*67:01:02-67:02	B67, -																					45		48	
*73:01-73:02	B73, -																								48
*78:01:01-78:01:02, 78:02:02-78:03, 78:07	B78, -									33									42						
*78:02:01, 78:04	B78, B35									33									42						
*78:05	-									33									42						
*78:06	-									33															
*81:01	B81																								
*81:02	B81																								48
*81:03-81:06	Null, -																								
*82:01-82:03	B82, -								32		35								43						
*83:01	-																	41							
A*23:31, A*24:106, C*07:231, C*16:10	-					30																			
A*24:174	-													37											
A*26:68, A*68:56, C*02:56, C*06:20, C*12:50	-																								
C*01:30, C*12:87	-				28																				
C*01:73	-							31																	
C*02:06, C*02:47	Cw2, -																								
C*02:23, C*04:77	-	25																							
C*03:05, C*03:25, C*03:27, C*03:143, C*03:167	Cw3, Cw10, -			27																					
C*03:19	Cw3																								
C*03:102	-																	41							
C*03:129, C*17:16	-																								
C*03:179	-																		43						
C*06:72	-																								
C*07:02:30, C*08:16:02	-							31																	
C*07:46	Cw7								32																
C*07:302	-																				44				
C*15:02:04	-																								
C*15:25	-																								
C*15:39	-																								
C*15:51	-																							45	
Well No.		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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Lot No.: **63S**

Lot-specific information

49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	ser. ⁵	Well No. HLA-B allele ⁴
										60							67			70				-	*58:27
										60							67			70				-	*58:28, 58:34
	50									60						66				70				-	*58:36
									58					64						70				B59, -	*59:01:01:01-59:01:01:02, 59:05
									58											70				B59, -	*59:02-59:03
									58						65					70				-	*59:04
			52																			71		B67, -	*67:01:01, 67:03
			52																			71		B67, -	*67:01:02-67:02
			52																	69		71		B73, -	*73:01-73:02
									59					64				68			71			B78, -	*78:01:01-78:01:02, 78:02:02-78:03, 78:07
									59									68			71			B78, B35	*78:02:01, 78:04
									59				62								71			-	*78:05
									59				62								71			-	*78:06
			52				56	57														71	72	B81	*81:01
			52					57														71	72	B81	*81:02
			52					57														71	72	Null, -	*81:03-81:06
			52				56									65						71		B82, -	*82:01-82:03
			52	53			56							63								71		-	*83:01
																								-	A*23:31, A*24:106, C*07:231, C*16:10
																								-	A*24:174
																				69				-	A*26:68, A*68:56, C*02:56, C*06:20, C*12:50
																								-	C*01:30, C*12:87
	50					55																		-	C*01:73
																		w						Cw2, -	C*02:06, C*02:47
																								-	C*02:23, C*04:77
																								Cw3, Cw10, -	C*03:05, C*03:25, C*03:27, C*03:143, C*03:167
																65								Cw3	C*03:19
															65									-	C*03:102
49																								-	C*03:129, C*17:16
																								-	C*03:179
																	66							-	C*06:72
																								-	C*07:02:30, C*08:16:02
																								Cw7	C*07:46
																								-	C*07:302
														64										-	C*15:02:04
				53																				-	C*15:25
						55																		-	C*15:39
																								-	C*15:51

101.701-24/06– including *Taq* pol., IFU-01
101.701-24u/06u – without *Taq* pol., IFU-02

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Lot No.: **63S**

Lot-specific information

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 25 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 28 to 30, 34, 41, 44, 45, 52, 54, 55, 59, 66 and 72 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

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

⁴The sequence of the B*0701 allele has been shown to be in error.

The sequence of the B*08:06 allele has been shown to be identical to B*08:20.

The sequence of the B*1305 allele has been shown to be identical to B*13:04.

The B*1324 allele has been renamed B*13:22:02

The B*150105 allele has been corrected and renamed B*15:120

The B*1522 allele has been renamed B*35:43.

The sequence of the B*1541 allele has been shown to be identical to B*15:39.

The B*1559 allele has been renamed B*35:44.

The B*15:100 allele has never been assigned.

The sequence of the B*1816 allele has been shown to be identical to B*18:14.

The sequence of the B*27051 allele has been shown to be identical to B*27:05:02.

The sequence of the B*2722 allele has been shown to be identical to the corrected B*27:06 sequence.

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

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

The sequence of the B*39012 allele has been shown to be identical to B*39:01:01:01.

The sequence of the B*3921 allele has been shown to be identical to B*39:24.

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

The sequence of the B*4041 allele has been shown to be identical to B*40:40.

The sequence of the B*4203 allele has never been assigned.

The sequence of the B*4401 allele has been shown to be identical to B*44:02:01:01.

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

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

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

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

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

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

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

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

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

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

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

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

⁹The B*18:29 and 18:72 and the B*35:32:01-35:32:02, 35:37, 35:53N, 35:64:01-35:64:02, 35:68:01-35:68:02, 35:99, 35:118-35:119 and 35:174 alleles give rise to identical amplification

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patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

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

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

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

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

¹⁴Primer mix 28 amplifies the B*15:143, 35:19, 40:170, 44:07 and 50:07 alleles, and primer mix 50 amplifies the B*37:06:01 allele in addition to the alleles specified in the tables.

'ser', serological HLA specificity.

'w', might be weakly amplified.

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

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Well No.	DR	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
DRB1 allele ⁴	ser ⁵																								
*01:01:01-01:02:08, 01:04-01:38, 01:40N-01:41, 01:43-01:58	DR1, Null, -	73																							
*01:03, 01:39N	DR103/DR1, Null	74																							
*01:42	-	73	74																						
*03:01:01:01-03:01:22, 03:04:01-03:06, 03:09, 03:11:01-03:16, 03:18-03:20, 03:22-03:23, 03:25-03:26, 03:28, 03:30-03:31, 03:33-03:34, 03:36-03:37, 03:43-03:45, 03:47-03:48, 03:50-03:52, 03:54-03:63, 03:66-03:68N, 03:70-03:73, 03:75, 03:77-03:84, 03:86, 03:89	DR17, DR3, Null, -					77	78											89							
*03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74, 03:88, 03:90	DR18, DR3, -					77		79										89							
*03:07, 03:17, 03:21, 03:24, 03:32, 03:35, 03:39-03:41, 03:49	DR3, -					77												89							
*03:08, 03:65	DR3, -					77	78					83		85											
*03:10	DR3					77	78												91	92					
*03:42, 03:69, 03:87	-					77																			
*03:46, 03:64	-					77	78																		
*03:76	-						78						84			87		89							
*04:01:01-04:05:11, 04:05:13-04:61, 04:63-04:68, 04:70-04:72:02, 04:74-04:104, 04:106-04:121, 04:123-04:145, 04:147-04:158N	DR4, DR4/DR3, Null, -								80																
*04:62, 04:69, 04:73, 04:105:01-04:105:02, 04:122, 04:146	DR4, -								80										90						
*07:01:01:01-07:01:04, 07:03-07:24	DR7, Null, -									81															
*08:01:01-08:02:04, 08:04:01-08:07, 08:11, 08:16-08:17, 08:22, 08:24, 08:26, 08:28, 08:39, 08:42-08:44, 08:50, 08:52	DR8, -										82						88								
*08:03:02-08:03:03, 08:10, 08:12-08:15, 08:18-08:19, 08:23, 08:25, 08:27, 08:29-08:30:03, 08:33-08:34, 08:36:01, 08:37-08:38, 08:45-08:49, 08:51	DR8, -										82														
*08:08	DR8										82						88		90						
*08:09, 14:15 ⁷	DR8										82						88			92					
*08:20, 13:18, 13:47, 13:55, 13:158 ⁸	DR13, -																87	88	89		92				
Well No.	DR	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96

Negative Control



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Well No.	DR	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
DRB1 allele ⁴	ser ⁵																								
*08:21	DR8										82					87	88			92					
*08:31, 08:41, 11:67 ⁹	DR8/DR1 1, -										82			85		88									
*08:32, 08:53	-										82			86						92					
*08:35, 08:36:02	-										82									92					
*08:40	-						78				82														
*09:01:02-09:01:05, 09:01:07-09:02:02, 09:04-09:20	DR9, -											83								91					
*09:01:06, 09:03	DR9											83													
*10:01:01-10:05	DR10, -												84												
*11:01:01-11:01:17, 11:04:01-11:04:11, 11:06:01-11:06:03, 11:09-11:10:02, 11:12:01-11:12:02, 11:15, 11:24, 11:27:01-11:30, 11:32-11:33, 11:35, 11:37:01-11:39, 11:43-11:44, 11:46:01-11:47, 11:49:01-11:51, 11:54:01-11:54:02, 11:56, 11:58:01-11:58:02, 11:60-11:62, 11:66, 11:72, 11:74:01-11:75, 11:77-11:78, 11:81, 11:84:01-11:84:02, 11:88, 11:90-11:92, 11:94-11:95, 11:97, 11:99-11:102:02, 11:106, 11:108-11:117, 11:120-11:121, 11:123, 11:126, 11:128-11:129, 11:133-11:134, 11:137, 11:140-11:141, 11:144-11:145	DR11, -													85		87	88								
*11:01:18, 11:08:01-11:08:02, 11:18-11:19:03, 11:42, 11:57, 11:130	DR11, -													85		87									
*11:02:01-11:03, 11:11:01-11:11:02, 11:14:01-11:14:02, 11:16, 11:20-11:21, 11:36, 11:40-11:41, 11:48, 11:63, 11:65:01-11:65:02, 11:68, 11:70, 11:76, 11:85-11:86, 11:93, 11:118, 11:122, 11:124, 11:127, 11:138-11:139	DR11, DR11/DR 13, -						78							85		87	88								
*11:05	DR11													85		88									
*11:07, 11:53, 11:103, 11:105, 11:107, 11:125	DR11, -						77					83		85											
*11:13:01-11:13:02	DR11							w						85						91	92				
*11:17, 11:52	DR14, DR11													85						91	92				
*11:22, 11:98, 11:104, 11:136, 11:143	-													85											
*11:23, 11:25, 11:96	DR11, -													85		87	88			92					
*11:26, 11:34	DR11							79						85											
*11:31, 11:45, 11:64, 11:119	DR11, -													85		87				92					
Well No.	DR	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96

Negative Control



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Lot-specific information

Well No.	DR	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
DRB1 allele ⁴	ser ⁵																								
*11:55	DR11													85		88				92					
*11:59, 11:80, 11:83, 11:87, 11:135, 11:142	DR11, -						78						84	85		87	88								
*11:69, 11:82	-													85		88			90						
*11:73, 11:79, 11:131-11:132	-						78							85		87									
*11:89	-													85							92				
*12:01:01-12:01:05, 12:03:02-12:03:03, 12:05-12:12, 12:14, 12:17, 12:24N-12:25, 12:28-12:30, 12:34-12:36, 12:38	DR12, Null, -														86										
*12:02:01-12:02:05, 12:13, 12:15, 12:18-12:21, 12:23, 12:26-12:27, 12:31N-12:33, 12:37	DR12, Null, -														86		88								
*12:04, 12:39	DR12, -											82			86										
*12:16:01-12:16:02	-											82			86		88								
*12:22	-										81	82			86										
*13:01:01-13:02:01, 13:02:03-13:02:08, 13:04, 13:08, 13:16, 13:20, 13:22-13:24, 13:28-13:29, 13:31-13:32, 13:34-13:36, 13:38-13:40, 13:48, 13:51-13:52, 13:54, 13:59, 13:61:01-13:61:02, 13:63-13:65, 13:68-13:70, 13:72-13:76, 13:78-13:80, 13:83-13:84, 13:87, 13:91-13:93, 13:96:01-13:99, 13:102, 13:105-13:107, 13:109, 13:111-13:114, 13:117, 13:121, 13:123-13:128, 13:130-13:131, 13:135, 13:138-13:143, 13:145, 13:147-13:149, 13:153, 13:155	DR13, DR11, DR14, Null, -						78									87	88	89							
*13:02:02	DR13						78												89						
*13:03:01-13:03:06, 13:10, 13:33:01-13:33:03, 13:37, 13:66:01-13:66:02, 13:81, 13:88-13:90, 13:94:01-13:95, 13:101, 13:115, 13:120, 13:133, 13:137N, 13:151-13:152	DR13, Null, -						78									87		89							
*13:05:01-13:05:02, 13:07:01-13:07:02, 13:11:01-13:11:02, 13:14:01-13:14:03, 13:21:01-13:21:02, 13:42, 13:46, 13:49-13:50:02, 13:62, 13:100, 13:108, 13:132, 13:136, 13:150	DR13, DR13/DR11, DR6, -															87	88	89							
Well No.	DR	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96

Negative Control

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Well No.	DR	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
DRB1 allele ⁴	ser ⁵																								
*13:06, 13:12:01-13:12:03, 13:25, 13:30, 13:56, 13:58, 13:60, 13:77, 13:82, 13:110, 13:118, 13:134, 13:157, 13:161	DR13, DR11, DR6, -															87		89							
*13:09	DR13																88	89							
*13:13, 13:119, 13:154, 13:156, 14:84, 14:116 ¹⁰	DR13, -															87		89			92				
*13:15, 13:19, 13:53, 13:57, 13:104	DR13, -						78	79								87	88	89							
*13:17, 13:116	DR13, -						78			81							88								
*13:26:01-13:26:02	DR14, -							79								87	88	89							
*13:27, 13:41, 13:71	DR13						78						84			87	88	89							
*13:43, 13:159	DR13, -						78									87	88			91	92				
*13:44, 13:86	-							79											89						
*13:45	DR13						78									87	88		90		92				
*13:67, 13:103, 13:160	DR13, -															87	88								
*13:85	-						78	79								87		89							
*13:122	-						78									87									
*13:129	-						78						84				88	89							
*13:144	-						78									87	88	89			92				
*13:146	-																88	89			92				
*14:01:01-14:01:02, 14:01:04, 14:04, 14:07:01-14:07:02, 14:10, 14:26, 14:28, 14:31, 14:32:03, 14:35, 14:38-14:39, 14:54:01, 14:55, 14:57, 14:60-14:62, 14:70-14:71, 14:75-14:76, 14:79, 14:86-14:88, 14:90, 14:99, 14:101, 14:104, 14:107, 14:110-14:114, 14:117-14:118, 14:120, 14:122, 14:124-14:125, 14:129, 14:131, 14:138-14:140	DR14, DR1404/DR14, DR4/DR6, -																		90	91	92				
*14:01:03, 14:08, 14:23:02, 14:34, 14:54:02, 14:72, 14:92N, 14:97, 14:126, 14:130, 14:133	DR14, Null, -																				91	92			
*14:02, 14:06:01-14:06:02, 14:09, 14:13, 14:17, 14:20, 14:29-14:30, 14:33, 14:41, 14:47-14:48, 14:51, 14:80, 14:83, 14:94, 14:106, 14:108, 14:121	DR14, DR6, -							79										89		91					
*14:03:01-14:03:02, 14:12:01-14:12:02, 14:40, 14:63, 14:67, 14:77-14:78, 14:85, 14:102, 14:115, 14:135	DR1403/DR14, DR6, -							79								87		89			92				
Well No.	DR	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96

Negative Control



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Well No.	DR	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	
DRB1 allele ⁴	ser ⁵																									
*14:05:01-14:05:04, 14:14, 14:23:01, 14:23:03-14:23:04, 14:36, 14:43-14:45, 14:56, 14:59, 14:64, 14:91, 14:96, 14:100, 14:103, 14:123, 14:127:01-14:127:02, 14:134	DR14, -																	89		91	92					
*14:11	DR14									82										91	92					
*14:16	DR6						78									87	88		90	91	92					
*14:18, 14:81	DR14, -						79											89		91	92					
*14:19, 14:21, 14:109	DR14, -						78	79								87		89		w						
*14:22, 14:105	DR14, -															87	88		90	91	92					
*14:24	DR14						79										88	89								
*14:25, 14:53, 14:128	DR6, DR13/14, -															87	88		90		92					
*14:27	DR14						79									87	88	89			92					
*14:32:01-14:32:02	DR14						w												90	91	92					
*14:37	DR14																88	89	90							
*14:42, 14:136	-																	89			92					
*14:46, 14:52	DR14																			91						
*14:49, 14:119	DR14, -						79												90	91	92					
*14:50	DR14									81										90	91	92				
*14:58	DR14																		90		92					
*14:65	DR6						w											89		91	92					
Well No.	DR	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	

Negative Control

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 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.

Well number 73 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DR low resolution typing.

In addition, well number 82 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

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

³The codon, and in parenthesis the nucleotide, in the 2nd exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Codon and nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

⁴The DRB1*03:11:02 allele has been renamed DRB1*03:81.

The sequence of the DRB1*04:05:12 allele has been shown to be identical to DRB1*04:05:14.

The sequence of the DRB1*0702 allele has been shown to be identical to DRB1*07:01:01:01.

The sequence of the DRB1*080301 allele has been shown to be identical to DRB1*08:03:02.

The sequence of the DRB1*09011 allele has been shown to be identical to DRB1*09:01:02.

The sequence of the DRB1*1171 allele has been shown to be identical to DRB1*11:02:01.

The sequence of the DRB1*12031 allele has been shown to be identical to DRB1*12:01:01.

The DRB1*1466 allele has been renamed DRB1*14:32:02.

The sequence of the DRB1*1606 allele has been shown to be identical to DRB1*16:05:01.

The sequence of the DRB3*010101 allele has been shown to be identical to DRB3*01:01:02:01.

The DRB4*0101102N allele has been renamed DRB4*01:03:10:02N.

The sequence of the DRB5*0201 allele has been shown to be identical to DRB5*02:02.

Due to sharing of sequence motifs in codon 38, DRB3*01:14 will also be amplified in primer mixes 77, 78 and 89 in addition to primer mix 93.

The DRB4*02:01N and DRB4*03:01N null alleles will not be amplified by the DR low resolution primer set.

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Lot-specific information

Well No.	DR	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
DRB1 allele ⁴	ser ⁵																								
*14:68, 14:93	DR14, -									82								90	91	92					
*14:69	-															87		90	92						
*14:73	-																88	90	91	92					
*14:74	-															87		90	91	92					
*14:82	-						78											90	91	92					
*14:89	-							79										89		92					
*14:95	-						78											89	91	92					
*14:98	-							79								87	89								
*14:132	-						78												91	92					
*14:137N	Null						78									87		90	91	92					
*15:01:01:01-15:20, 15:22-15:24, 15:26, 15:28-15:33, 15:35-15:65, 15:67-15:94	DR15, DR2, Null, -			75																					
*15:21	DR2			75																w					
*15:25	-			75		77																			
*15:27, 15:34, 15:66	-			75															91						
*16:01:01-16:03, 16:05:01-16:05:02, 16:07-16:17, 16:19-16:23	DR16, Null, -				76																				
*16:04, 16:18	DR16, -				76															w					
DRB3*01:01:02:01-01:15, DRB3*02:01-02:26, DRB3*02:28-02:29N, DRB3*03:01:01-03:03	DR52, Null, -																					93			
DRB3*02:27	-															87						93			
DRB4*01:01:01:01-01:03:01:01, DRB4*01:03:01:03-01:08	DR53, -																						94		
DRB4*01:03:01:02N	Null																	90				94			
DRB5*01:01:01-01:14, DRB5*02:02-02:06	DR51, Null, -																							95	
Well No.	DR	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96

Negative Control

⁵The serological reactivity of all DRB 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.

⁶Primer mix 96 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.

⁷The DRB1*08:09 and the DRB1*14:15 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁸The DRB1*08:20 and the DRB1*13:18, 13:47, 13:55 and 13:158 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁹The DRB1*08:31, 08:41 and DRB1*11:67 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

¹⁰The DRB1*13:13, 13:119, 13:154 and 13:156 and the DRB1*14:84 and 14:116 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

'ser', serological HLA specificity.

'w', may be weakly amplified.

101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **63S**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-A low resolution primer set																				
				Lot No.:	Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	IHWC cell line	A*	A*		201321701	201211702	201321703	201211704	201321705	201211706	201211707	201211708	201211709	201211710	201211711	201321712	201211713	201321714	201321715	201211716
1	9001 SA	*24:02			-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01			+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
5	9009 KAS011	*01:01			+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03		-	+	-	-	-	-	-	+	-	-	+	-	+	-	-	-
7	9020 QBL	*26:01			-	-	-	-	-	-	-	+	-	+	-	-	+	-	-	-
8	9025 DEU	*31:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
9	9026 YAR	*26:01			-	-	-	-	-	-	-	+	-	+	-	-	+	-	-	-
10	9107 LKT3	*24:02			-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
12	9052 DBB	*02:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
15	9075 DKB	*24:02			-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
17	9282 CTM3953540	*03:01	*80:01		-	-	+	-	-	+	-	-	-	-	-	-	+	-	-	-
18	9257 32367	*33:03	*74:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17			-	+	-	-	-	-	W	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01		-	+	-	-	-	-	-	+	-	-	+	+	-	-	-	-
24	9035 JBUSH	*32:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
25	9049 IBW9	*33:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01		-	-	-	-	+	-	+	-	-	-	-	-	-	+	-	-
28	9320 BEL5GB	*02:01	*29:02		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-
29	9050 MOU	*29:02			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
30	9021 RSH	*30:01	*68:02		-	-	-	-	-	-	-	+	-	-	-	-	-	-	+	-
31	9019 DUCAF	*30:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
32	9297 HAG	*02:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
34	9104 DHIF	*31:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
35	9302 SSTO	*32:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01		-	+	-	+	-	-	-	-	-	+	-	-	-	-	-	-
37	9065 HHKB	*03:01			-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-
38	9099 LZL	*02:17			-	+	-	-	-	-	W	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01		+	-	+	+	-	-	-	-	-	-	-	-	+	-	-	-
40	9134 WHONP199	*02:07	*30:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	+	-
41	9055 H0301	*03:01			-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-
42	9066 TAB089	*02:07			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01			-	-	-	-	-	-	-	+	-	-	+	-	+	-	-	-
45	9239 SHJO	*23:01	*24:02		-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01			-	-	+	-	-	-	-	-	-	-	-	-	+	-	-	-
47	9045 TUBO	*02:16	*03:01		-	+	+	-	-	-	-	-	-	-	-	-	+	-	-	-
48	9303 TER-ND	*02:01	*11:01		-	+	-	+	-	-	-	-	-	-	+	-	-	-	-	-



101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **63S**

Lot-specific information

CELL LINE VALIDATION SHEET												
HLA-A low resolution primer set												
				Well								
				17	18	19	20	21	22	23	24	
				Lot No.:	201211717	201321718	201321719	201211720	201321721	201211722	201211723	201211724
	IHWC cell line	A*	A*									
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03	-	-	-	-	-	-	-	+	-
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	+	-
18	9257 32367	*33:03	*74:01	-	+	+	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01		+	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	+	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	-	-	-	+	-	-	-	-	-
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		+	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-

101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **63S**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B low resolution SSP kit																				
				Well																
				25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
				Prod. No.:	201318701	201318702	201321803	201318704	201318705	201320806	201318707	201321808	201321809	201318710	201318711	201318712	201318713	201318714	201318715	201318716
IHCW cell line		B*																		
1	9001	SA	*07:02	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
15	9075	DKB	*40:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
20	9059	SLE005	*40:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
27	9191	CH1007	*07:05	*51:01	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02	*44:03	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
32	9297	HAG	*41:02		-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
37	9065	HHKB	*07:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
39	9315	CML	*08:01	*27:05	-	+	-	-	+	-	-	+	-	-	-	-	-	-	-	+
40	9134	WHONP199	*13:02	*46:01	-	-	+	+	-	-	+	-	-	+	-	+	-	-	-	-
41	9055	H0301	*14:02		-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	+	-	-	-	-	-	-	-	+	-	-	-	-

101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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Lot No.: **63S**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-B low resolution SSP kit																			
				Well															
				41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
			Prod. No.:	201318717	201321818	201318719	201318720	201318721	201320822	201320823	201320824	201318725	201318726	201318727	201318728	201321829	201318730	201318731	201318732
	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	+	+	-	-	-	-	-	-	-	-	-	-	+	-	-	-



101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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

Lot No.: **63S**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B low resolution SSP kit																				
				Well																
				57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	
				201318733	201318734	201318735	201318736	201318737	201318738	201318739	201318740	201318741	201321842	201318743	201318744	201318745	201318746	201318747	201321848	
	IHWC cell line	B*	Prod. No.:																	
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	-	-	-	-	-	+	-	-	-	-	-	+	-	+	+	-	-

101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **63S**

Lot-specific information

CELL LINE VALIDATION SHEET																					
DR low resolution primer set																					
				Prod. No.:	Well																
					73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	
	IHWC cell line	DRB1			201321901	201209002	201209003	201209004	201209005	201209006	201209007	201209008	201209009	201209010	201209011	201209012	201209013	201209014	201209015	201209016	
1	9001 SA	*01:01			+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*15:02	*04:05		-	-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*15:02			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:01			-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*16:01			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*04:07	*08:03		-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-	-
7	9020 QBL	*03:01			-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01			-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
9	9026 YAR	*04:02			-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*04:05			-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*07:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
12	9052 DBB	*07:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:01			+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*08:02			-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	+
15	9075 DKB	*09:01			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
16	9037 SWEIG007	*11:01			-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	+
17	9282 CTM3953540	*03:01	*13:01		-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	+	+
18	9257 32367	*09:01	*11:01		-	-	-	-	-	-	-	-	-	-	+	-	+	-	+	+	+
19	9038 BM16	*12:01			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
20	9059 SLE005	*13:02			-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	+	+
21	9064 AMALA	*14:02			-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*13:02	*14:54		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	+
23	9124 IHL	*08:03	*14:14		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
24	9035 JBUSH	*11:01			-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	+	+
25	9049 IBW9	*07:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
26	9285 WT49	*03:01			-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*04:05	*10:01		-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-	-
28	9320 BEL5GB	*04:16	*07:01		-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
29	9050 MOU	*07:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
30	9021 RSH	*03:02			-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*03:01			-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*13:03			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	-
33	9098 MT14B	*04:04			-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*11:01			-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	+	+
35	9302 SSTO	*04:03			-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
36	9024 KT17	*04:03	*04:06		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*13:01			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	+
38	9099 LZL	*14:02			-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*03:01	*04:01		-	-	-	-	+	+	-	+	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*07:01	*09:01		-	-	-	-	-	-	-	-	+	-	+	-	-	-	-	-	-
41	9055 H0301	*13:02			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	+
42	9066 TAB089	*08:03			-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
43	9076 T7526	*09:01			-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
44	9057 TEM	*14:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*07:01			-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
46	9013 SCHU	*15:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*11:04	*12:01		-	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+
48	9303 TER-ND	*01:03			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **63S**

Lot-specific information

CELL LINE VALIDATION SHEET											
DR low resolution primer set											
				Prod. No.:	Well						
					89	90	91	92	93	94	95
					201209017	201209018	201209019	201321920	201209029	201209030	201209031
	IHWC cell line	DRB1									
1	9001 SA	*01:01			-	-	-	-	-	-	-
2	9280 LK707	*15:02	*04:05		-	-	-	-	-	+	+
3	9011 E4181324	*15:02			-	-	-	-	-	-	+
4	9275 GU373	*03:01			+	-	-	-	+	-	-
5	9009 KAS011	*16:01			-	-	-	-	-	-	+
6	9353 SM	*04:07	*08:03		-	-	-	-	-	+	-
7	9020 QBL	*03:01			+	-	-	-	+	-	-
8	9025 DEU	*04:01			-	-	-	-	-	+	-
9	9026 YAR	*04:02			-	-	-	-	-	+	-
10	9107 LKT3	*04:05			-	-	-	-	-	+	-
11	9051 PITOUT	*07:01			-	-	-	-	-	+	-
12	9052 DBB	*07:01			-	-	-	-	-	+	-
13	9004 JESTHOM	*01:01			-	-	-	-	-	-	-
14	9071 OLGA	*08:02			-	-	-	-	-	-	-
15	9075 DKB	*09:01			-	-	+	-	-	+	-
16	9037 SWEIG007	*11:01			-	-	-	-	+	-	-
17	9282 CTM3953540	*03:01	*13:01		+	-	-	-	+	-	-
18	9257 32367	*09:01	*11:01		-	-	+	-	+	+	-
19	9038 BM16	*12:01			-	-	-	-	+	-	-
20	9059 SLE005	*13:02			+	-	-	-	+	-	-
21	9064 AMALA	*14:02			+	-	+	-	+	-	-
22	9056 KOSE	*13:02	*14:54		+	+	+	+	+	-	-
23	9124 IHL	*08:03	*14:14		+	-	+	+	+	-	-
24	9035 JBUSH	*11:01			-	-	-	-	+	-	-
25	9049 IBW9	*07:01			-	-	-	-	-	+	-
26	9285 WT49	*03:01			+	-	-	-	+	-	-
27	9191 CH1007	*04:05	*10:01		-	-	-	-	-	+	-
28	9320 BEL5GB	*04:16	*07:01		-	-	-	-	-	+	-
29	9050 MOU	*07:01			-	-	-	-	-	+	-
30	9021 RSH	*03:02			+	-	-	-	+	-	-
31	9019 DUCAF	*03:01			+	-	-	-	+	-	-
32	9297 HAG	*13:03			+	-	-	-	+	-	-
33	9098 MT14B	*04:04			-	-	-	-	-	+	-
34	9104 DHIF	*11:01			-	-	-	-	+	-	-
35	9302 SSTO	*04:03			-	-	-	-	-	+	-
36	9024 KT17	*04:03	*04:06		-	-	-	-	-	+	-
37	9065 HHKB	*13:01			+	-	-	-	+	-	-
38	9099 LZL	*14:02			+	-	+	-	+	-	-
39	9315 CML	*03:01	*04:01		+	-	-	-	+	+	-
40	9134 WHONP199	*07:01	*09:01		-	-	+	-	-	+	-
41	9055 H0301	*13:02			+	-	-	-	+	-	-
42	9066 TAB089	*08:03			-	-	-	-	-	-	-
43	9076 T7526	*09:01			-	-	+	-	-	+	-
44	9057 TEM	*14:01			-	+	+	+	+	-	-
45	9239 SHJO	*07:01			-	-	-	-	-	+	-
46	9013 SCHU	*15:01			-	-	-	-	-	-	+
47	9045 TUBO	*11:04	*12:01		-	-	-	-	+	-	-
48	9303 TER-ND	*01:03			-	-	-	-	-	-	-

101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **63S**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-A-B-DR SSP Combi Tray

Product number: 101.701-24/06 – including *Taq* pol.
 101.701-24u/06u – without *Taq* pol.

Lot number: 63S

Expiry date: 2016-March-01

Number of tests: 24 tests – Product No. 101.701-24/24u
 6 tests – Product No. 101.701-06/06u

Number of wells per test: 95 + 1

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2013-217-01	9	2012-117-09	17	2012-117-17
2	2012-117-02	10	2012-117-10	18	2013-217-18
3	2013-217-03	11	2012-117-11	19	2013-217-19
4	2012-117-04	12	2013-217-12	20	2012-117-20
5	2013-217-05	13	2012-117-13	21	2013-217-21
6	2012-117-06	14	2013-217-14	22	2012-117-22
7	2012-117-07	15	2013-217-15	23	2012-117-23
8	2012-117-08	16	2012-117-16	24	2012-117-24

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

Additional 5'- and 3'-primers in primer solutions 4, 5, 7, 8, 12, 14 to 17 and 20 to 23 were tested by separately adding one 3'-primer, respectively one 5'-primer. Additional 5'-primers in primer solution 1 and 19 were tested by separately adding one 3'-primer. Additional 3'-primers in primer solutions 3 and 18 were tested by separately adding one 5'-primer.

In primer solutions 2, 11, 12 and 15 one or two 5'-primers were not possible to test, and in primer solutions 3, 6, 8, 12, 13, 16 and 18 one 3'-primer was not possible to test.

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
25	2013-187-01	41	2013-187-17	57	2013-187-33
26	2013-187-02	42	2013-218-18	58	2013-187-34
27	2013-218-03	43	2013-187-19	59	2013-187-35
28	2013-187-04	44	2013-187-20	60	2013-187-36
29	2013-187-05	45	2013-187-21	61	2013-187-37
30	2013-208-06	46	2013-208-22	62	2013-187-38
31	2013-187-07	47	2013-208-23	63	2013-187-39
32	2013-218-08	48	2013-208-24	64	2013-187-40
33	2013-218-09	49	2013-187-25	65	2013-187-41
34	2013-187-10	50	2013-187-26	66	2013-218-42
35	2013-187-11	51	2013-187-27	67	2013-187-43
36	2013-187-12	52	2013-187-28	68	2013-187-44
37	2013-187-13	53	2013-218-29	69	2013-187-45
38	2013-187-14	54	2013-187-30	70	2013-187-46
39	2013-187-15	55	2013-187-31	71	2013-187-47
40	2013-187-16	56	2013-187-32	72	2013-218-48

101.701-24/06– including *Taq* pol., IFU-01
 101.701-24u/06u – without *Taq* pol., IFU-02

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Lot No.: **63S**

Lot-specific information

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

Additional 5'-primers and 3'-primers in primer solutions 27, 30, 38, 43, 53, 55 and 64 were tested by separately adding one additional 3'-primer, respectively one additional 5'-primer. Additional 3'-primers in primer solutions 26, 32, 37, 39, 42 and 59 were tested by separately adding one additional 5'-primer. Additional 5'-primers in primer solutions 25, 45, 49 and 72 were tested by separately adding one additional 3'-primer.

In primer mixes 55, 66 and 67 one 5'-primer was not possible to test, and in primer mixes 27, 53, 62 and 66 one or two 3'-primer was not possible to test.

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
73	2013-219-01	81	2012-090-09	89	2012-090-17
74	2012-090-02	82	2012-090-10	90	2012-090-18
75	2012-090-03	83	2012-090-11	91	2012-090-19
76	2012-090-04	84	2012-090-12	92	2013-219-20
77	2012-090-05	85	2012-090-13	93	2012-090-29
78	2012-090-06	86	2012-090-14	94	2012-090-30
79	2012-090-07	87	2012-090-15	95	2012-090-31
80	2012-090-08	88	2012-090-16		

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

Additional 5'- and 3'-primers in primer solutions 81, 83 and 90 were tested by separately adding one 3'-primer, respectively one 5'-primer.

Additional 5'-primers in primer solutions 78, 84, 87 and 88 were tested by separately adding one 3'-primer. Additional 3'-primers in primer solutions 73, 75, 76, 82 and 92 were tested by separately adding one 5'-primer.

One, two or three of the 5'-primers in primer solution 73, 75, 76, 80 to 82, 85, 87, 88 and 92 were not possible to test. One or two of the 3'-primers in primer solution 73, 75, 76, 85, 87 and 94 were not possible to test.

The negative control primer pairs, **Production No. 2013-165-01**, can detect contamination with PCR products diluted 10^{-7} .

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

Date of approval: 2013-October-04

Approved by:

Production Quality Control

101.701-24/06– including *Taq* pol., IFU-01
101.701-24u/06u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **63S**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-A-B-DR SSP Combi Tray
Product number: 101.701-24/24u, 06/06u
Lot number: 63S

Intended use: HLA-A, HLA-B and HLA-DR low resolution histo-compatibility testing

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

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

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

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

Stockholm, Sweden

Daniel Malica
Head of QA and Regulatory Affairs

101.701-24/06– including *Taq* pol., IFU-01
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Lot-specific information

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Lot No.: **63S**

Lot-specific information

ADDRESSES:

Manufacturer:

Olerup SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

Tel: +46-8-717 88 27

Fax: +46-8-717 88 18

E-mail: info-ssp@olerup.com

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

Distributed by:

Olerup GmbH, Löwengasse 47 / 6, AT-1030 Vienna, Austria.

Tel: +43-1-710 15 00

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

Tel: 1-877-OLERUP1

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**.