

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.: 55S

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:	55S
Expiry date:	2015-December-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. 55S.**

### CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® HLA-A-B-DR SSP COMBI TRAY LOT (86R)

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 86R**).

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

Well	5'-primer	3'-primer	rationale
2	Exchanged	-	5'-primer exchanged for improved specificity of primer pair.
10	Exchanged, added	-	5'-primer added for the A*26:72 allele.
13	-	Added	3'-primer added for the A*25:18 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. 86R**).

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

Well	5'-primer	3'-primer	rationale
67	Added	-	5'-primer added for the B*58:39N allele.

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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. 86R**).

The HLA-DR low primer set is unchanged compared to the previous lot.

**Changes in revision R01 compared to R00:**

1. In primer mix 5, the specific PCR product of 535 base pairs may be difficult to distinguish from the internal control band. A foot note has been added to the Specificity Table.
2. Primer mix 6 does not amplify the A\*24:05 and A\*24:199 alleles. This has been corrected in the Specificity and Interpretation Tables.

**Change in revision R02 compared to R01:**

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

**Change in revision R03 compared to R02:**

1. 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.

**Change in revision R04 compared to R03:**

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
<b>5'-primer<sup>1</sup></b>	<b>164</b>	<b>340</b>	<b>440</b>	<b>45</b>	<b>45</b>	<b>43</b>
	5'-CAC <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-Tgg <sup>3'</sup>
<b>3'-primer<sup>2</sup></b>	<b>231</b>	<b>2<sup>nd</sup> I</b>	<b>507</b>	<b>59</b>	<b>58</b>	<b>57</b>
	5'-TgC <sup>3'</sup>	5'-AAA <sup>3'</sup>	5'-TTg <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-CTC <sup>3'</sup>
<b>A*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>B*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>C*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>DRB1</b>				<b>+</b>	<b>+</b>	
<b>DRB3</b>				<b>+</b>	<b>+</b>	
<b>DRB5</b>				<b>+</b>		
<b>DQB1</b>					<b>+</b>	
<b>DPB1</b>						<b>+</b>

<sup>1</sup>The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2<sup>nd</sup> or 3<sup>rd</sup> 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](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>2</sup>The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2<sup>nd</sup> or 3<sup>rd</sup> exon or the 2<sup>nd</sup> 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](http://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\*80:02 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\*10:04 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. ‘55S’.

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 and C\*08:69 alleles, 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 interpretation of HLA-A low resolution is only influenced by these seven HLA-B alleles and two HLA-C alleles and not by other HLA Class I genes.

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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, 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\*15:51 allele will be amplified by primer mix 45, the C\*03:129 allele will be amplified by primer mix 49, the C\*01:73 allele will be amplified by primer mix 50, the C\*15:25 allele will be amplified by primer mix 53, the C\*01:73 and C\*15:39 alleles will be amplified by primer mix 55, the C\*15:02:04 allele will be amplified by primer mix 64, the C\*03:12, C\*03:19 and C\*03:102 alleles 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 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\*80:02**, recognized by the HLA Nomenclature Committee in October 2012<sup>1</sup> 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 specificities<sup>2</sup>.

All the HLA-B alleles, i.e. **B\*07:02 to B\*83:01**, recognized by the HLA Nomenclature Committee in October 2012<sup>1</sup> 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 specificities<sup>3</sup>.

All the HLA-DRB1, -DRB3, -DRB4<sup>4</sup> and -DRB5 alleles, i.e. **DRB1\*01:01:01 to 10:04**, **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 October 2012<sup>1</sup> 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 specificities<sup>5</sup>.

<sup>1</sup>HLA-A, HLA-B and HLA-DRB alleles listed on the IMGT/HLA web page 2012-October-17, release 3.10.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

<sup>2</sup>The 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.

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.

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<sup>3</sup>The 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 and 39:74 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.

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

<sup>5</sup>The 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 and 13:55 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 and 13:119 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 <sup>1</sup>	Size of control band <sup>2</sup>	HLA-A serology <sup>3</sup>	Amplified HLA-A alleles <sup>4,5</sup>
1 <sup>6,7</sup>	120 bp, 145 bp, 225 bp	<b>800 bp</b>	A1, A36	*01:01:01:01-01:04N, 01:06-01:33, 01:35-01:122, 03:18, 03:135, 11:94, 11:112, 36:01-36:05
2 <sup>7</sup>	175 bp, 215 bp, 255 bp, 365 bp, 415 bp	<b>800 bp</b>	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 <sup>w</sup> , 02:79:01-02:97:02, 02:99, 02:101:01-02:128, 02:130-02:392
3 <sup>9</sup>	205 bp, 235 bp	1070 bp	A1, A3, A11, A32, A34, A36	*01:12, 01:19, 01:21, 02:338, 03:01:01:01-03:17:02, 03:19-03:74, 03:76-03:94, 03:96-03:134, 03:136-03:161N, 11:25, 11:60, 11:130, 24:92, 32:04, 34:02:01-34:04, 34:07-34:10N, 36:02
4	190 bp	<b>800 bp</b>	A1, A3, A11, A30, A36, A68	*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, 01:80-01:83:01, 01:83:02 <sup>w</sup> , 01:84-01:98, 01:100-01:122, 02:78, 02:169, 03:12, 03:18, 03:88, 03:135, 11:01:01-11:27, 11:29-11:52Q, 11:54-11:132, 26:19, 26:72, 30:08, 36:04, 68:13:01, 68:66, <b>C*03:174, C*08:69</b>
5 <sup>15</sup>	160 bp, 535 bp	<b>800 bp</b>	A3, A9, A23, A24, A2403, A31, A32	*01:95, 03:30, 03:152, 23:01:01-23:55, 24:02:01:01-24:11N, 24:13:01-24:15, 24:17-24:64, 24:66-24:88, 24:90N-24:128, 24:130-24:210, 24:212-24:214, 24:216-24:222N, 31:08, 32:05, 32:13, 33:53
6 <sup>12,13</sup>	135 bp, 200 bp	<b>800 bp</b>	A9, A23, A24, A29, A80	*23:01:01-23:55, 24:24, 24:71, 29:07, 30:56, 31:29, 80:01:01:01-80:02, <b>B*18:27</b>
7	175 bp, 205 bp	1070 bp	A2, A3, A9, A23, A24, A2403, A26	*02:17:01 <sup>w</sup> -02:17:02 <sup>w</sup> , 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, 24:212-24:214, 24:216-24:221, 26:16, 33:19, 68:45

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<b>8</b>	165 bp, 200 bp	<b>800 bp</b>	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- 26:80, 29:28, 32:15, 33:51, 34:01:01- 34:10N, 66:01-66:19, 68:01:01:01-68:96, 69:01
<b>9<sup>6,10</sup></b>	75 bp	<b>800 bp</b>	A3, A25, A32	*25:01:01-25:22, 32:01:01-32:01:13, 32:02, 32:04, 32:06-32:37, 32:39-32:55:01, <b>B*07:81, B*08:52, B*18:67, B*38:41,</b> <b>B*53:05, B*53:16</b>
<b>10<sup>6,12</sup></b>	80 bp, 240 bp	<b>800 bp</b>	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, 26:79-26:80, 33:13, 33:48, 43:01, 68:84
<b>11<sup>6,7</sup></b>	80 bp, 175 bp, 500 bp	<b>1070 bp</b>	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, 11:54-11:132, 24:19, 24:44, 26:03:01-26:03:02, 26:06, 26:21, 26:78, 34:01:01-34:08, 34:10N, 66:01, 66:04-66:11, 66:13-66:14, 66:17-66:19, 80:02
<b>12<sup>6</sup></b>	125 bp, 185 bp	<b>800 bp</b>	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, 34:01:01-34:10N, 43:01, 66:02-66:03, 66:16
<b>13</b>	175 bp, 225 bp	<b>1070 bp</b>	A1, A2, A3, A10, A25, A26, A34, A43, A66	*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- 03:161N, 25:01:01-25:05, 25:07-25:22, 26:01:01-26:01:20, 26:01:22-26:01:27, 26:02 <sup>w</sup> , 26:03:01-26:03:02, 26:05-26:08, 26:10-26:28, 26:29 <sup>w</sup> , 26:30-26:33, 26:35- 26:43:02, 26:45-26:48, 26:49 <sup>w</sup> , 26:50-26:72, 26:74-26:77, 26:79-26:80, 30:55, 34:08, 43:01, 66:01, 66:04-66:09, 66:10 <sup>w</sup> , 66:11- 66:15, 66:17-66:19, 68:71, 74:13
<b>14<sup>6,7,12</sup></b>	80 bp, 115 bp, 200 bp, 240 bp	<b>1070 bp</b>	A2, A29	*02:237, 02:309, 03:95, 26:19, 26:22, 29:01:01:01-29:45, 30:57, 33:13, 33:48, 66:09
<b>15<sup>6,7,13,14</sup></b>	90 bp, 135 bp, 205 bp	<b>1070 bp</b>	A1, A30	*01:13, 01:28, 03:43, 03:82, 11:113, 30:01:01-30:04:02, 30:06-30:20, 30:22- 30:70N, 31:35

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<b>16</b>	240 bp, 380 bp	1070 bp	A2, A24, A31, A32	*02:237, 03:95, 29:14, 31:01:02-31:70, 32:05, 33:53
<b>17</b>	140 bp, 180 bp	1070 bp	A32	*01:95, 03:43, 03:82, 29:13, 29:39, 31:35, 32:01:01-32:03, 32:05-32:55:01, 74:07
<b>18</b>	200 bp	1070 bp	A33, A68	*02:243, 33:01:01-33:01:07, 33:03:01-33:37, 33:39-33:50, 33:52-33:64, 68:29
<b>19</b>	160 bp, 200 bp	<b>800 bp</b>	A74	*29:19, 29:39, 74:01-74:17
<b>20<sup>12</sup></b>	200 bp, 245 bp	<b>800 bp</b>	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, 68:01:01-68:96
<b>21</b>	240 bp, 375 bp	<b>800 bp</b>	A2, A26, A28, A68, A69	*02:55, 02:243, 24:82, 26:22, 33:22, 66:09, 68:29, 69:01
<b>22<sup>6,11</sup></b>	85 bp, 240 bp	<b>800 bp</b>	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
<b>23<sup>6,12</sup></b>	75 bp, 160 bp, 240 bp, 495 bp	<b>800 bp</b>	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: 80:01:01:02
<b>24<sup>13</sup></b>	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

<sup>1</sup>Alleles 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 inherit feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

<sup>2</sup>The 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 typing.

In addition, wells 2, 4 to 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.

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

<sup>3</sup>The 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.

<sup>4</sup>For several HLA Class I alleles 1<sup>st</sup> and/or 4<sup>th</sup> 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.

<sup>5</sup>Due to the sharing of sequence motifs between HLA-Class I alleles, primer mix 4 will amplify the C\*03:174 and C\*08:69 alleles, 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.

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

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

<sup>8</sup>In primer mix 5, the specific PCR product of 535 base pairs may be difficult to distinguish from the internal control band. The alleles giving rise to a product of this size are the following: the A\*01:95, 23:09, 23:51, 24:02:06, 24:02:27, 24:08, 24:24, 24:29 , 24:42, 24:67, 24:116, 24:137, 24:140, 24:145, 24:156, 24:171, 24:191, 24:192 and 32:13 alleles.

<sup>9</sup>Primer mix 3 may faintly amplify the A\*30:04:01-30:04:02, 30:06, 30:17 and 30:29 alleles.

<sup>10</sup>Primer mix 9 may weakly amplify the A\*34 alleles.

<sup>11</sup>Primer mix 22 might faintly amplify most A\*11 alleles.

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

<sup>13</sup>Primer 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.

<sup>14</sup>Primer mix 15 may have tendencies of unspecific amplifications.

<sup>15</sup>In primer mix 5, the specific PCR product of 535 base pairs may be difficult to distinguish from the internal control band. The alleles giving rise to a product of this size are the following: A\*01:95, 23:09, 23:51, 24:02:06, 24:02:27, 24:08, 24:24, 24:29 , 24:42, 24:67, 24:116, 24:137, 24:140, 24:145, 24:156, 24:171, 24:191, 24:192 and 32:13.

‘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 <sup>1</sup>	Size of control band <sup>2</sup>	HLA-B serol. <sup>3</sup>	Amplified HLA-B alleles <sup>4,5</sup>
25 <sup>6,10</sup>	110 bp	<b>800 bp</b>	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, 07:166-07:176, 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, 41:08, 42:05:01-42:05:02, 44:150, 48:05, 48:08, 48:15, <b>C*02:23, C*04:77</b>
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, 08:95-08:105, 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, 13:06-13:08Q, 13:10-13:23, 13:25-13:38, 13:40-13:57, 13:59-13:63N, 15:07:01-15:07:02, 15:36 <sup>w</sup> , 15:45, 15:55, 15:68, 15:89 <sup>w</sup> , 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 <sup>w</sup> , 44:54, 44:57 <sup>w</sup> , 44:60, 44:106, 44:110, 44:135, 44:158, 46:12, 51:64, 51:148, 53:14, 55:51, 58:18, <b>C*03:05, C*03:25, C*03:27, C*03:143, C*03:167</b>
28 <sup>7,8,15</sup>	130 bp, 265 bp	<b>800 bp</b>	12, 13, 14, 17, 21, 35, 35:57, 13:59-13:63N, 40, 41, 44, 45, 47, 49, 50, 60, 61, 64, 65	*13:01:01-13:04, 13:06-13:13, 13:15-13:23, 13:25-14:01:01-14:04, 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-

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29 <sup>8</sup>	185 bp, 235 bp	<b>800 bp</b>	7, 16, 17, 27, 2708, 37, 38, 3901, 3902, 39, 64, 67	*07:02:32, 14:01:01-14:01:02, 14:07N-14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 27:01-27:05:15, 27:05:17-27:05:19, 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, 27:82-27:99, 37:02, 38:01:01-38:02:02, 38:02:04- 38:03, 38:07-38:24, 38:26-38:32, 38:34N-38:42, 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, 47:04-47:05, 48:21, 48:26, 67:01:01, 67:03
30	190 bp	<b>800 bp</b>	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, <b>A*23:31,</b> <b>A*24:106, C*07:231, C*16:10</b>
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- 15:08, 15:10:02-15:11:03, 15:11:05-15:15, 15:17:01:01-15:17:02, 15:19-15:21, 15:24-15:28, 15:30-15:36, 15:38:01-15:40, 15:42-15:46, 15:48, 15:50, 15:55-15:58, 15:60, 15:63, 15:65-15:66, 15:70-15:71, 15:73, 15:75-15:79N, 15:81-15:89, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104- 15:107, 15:109-15:113, 15:116-15:118, 15:120- 15:122, 15:125-15:126, 15:128-15:129, 15:135- 15:150, 15:152, 15:154-15:155, 15:157, 15:159- 15:160, 15:162-15:172, 15:174-15:175, 15:177-

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32	165 bp, 220 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-08:12:03, 08:15-08:19N, 08:21-08:24, 08:26-08:27, 08:29-08:36, 08:38-08:39, 08:41-08:48, 08:50-08:54, 08:56:01-08:69, 08:71- 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, 35:87, 37:12, 38:30, 40:12, 40:136, 41:01- 41:03:02, 41:05-41:09, 41:11-41:17, 41:19-41:25, 42:01:01-42:02, 42:04-42:08, 42:10-42:15, 42:17, 44:14-44:15, 44:18, 44:20, 44:62, 44:100, 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, <b>C*07:46</b>
33 <sup>8,9,11</sup>	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, 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, 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, 40:48, 45:10, 49:07,

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35 <sup>6</sup>	105 bp, 195 bp	1070 bp	8, 12, 27, 38, 39, 3902, 40, 44, 45, 48, 60, 70, 71, 72, 82	*07:27, 07:50, 08:04, 08:17, 08:54, 15:03:01- 15:03:03, 15:47:01-15:47:02, 15:49, 15:54, 15:61- 15:62, 15:64:01-15:64:02, 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, 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, 48:07-48:28, 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, 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, 15:254-15:264, 18:01:01:01-18:15, 18:17N-18:25, 18:27-18:40, 18:42-18:60, 18:62- 18:83, 27:41, 35:01:01-35:01:36, 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, 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, 46:19-46:36, 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, 53:20-53:29, 54:06, 54:09, 54:14, 55:14, 55:23, 55:32, 56:03, 56:09, 56:18, 56:31-56:32,

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60	430 bp	1070 bp	5, 17, 27, 44, 51, 5102, 5103, 52, 53, 57, 58, 61	*18:67, 27:02:01-27:02:02, 27:30, 27:53, 27:57, 27:62, 27:65N, 27:75, 27:77, 27:83, 27:95, 37:34, 40:13, 40:19, 40:109, 40:117, 44:06, 44:25, 44:50, 44:95, 51:01:01-51:24:04, 51:26-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:148, 52:01:01-52:19, 52:21-52:31, 53:01:01-53:02, 53:04-53:08:02, 53:10, 53:14-53:29, 57:01:01-57:11, 57:13-57:60, 58:01:01- 58:02, 58:04-58:16, 58:18-58:29, 58:31N-58:39N
61	145 bp	1070 bp	12, 21, 35, 40, 4005, 41, 45, 47, 50, 60, 61	*07:133, 15:46, 15:53, 15:106, 15:143, 15:212, 18:48, 35:19, 35:47, 35:63, 35:154, 35:217, 39:69, 40:01:01-40:11:02, 40:14:01-40:16, 40:18, 40:20, 40:22N-40:40, 40:42-40:45, 40:48-40:75, 40:77- 40:92, 40:94-40:95, 40:97-40:108, 40:111-40:116, 40:118N-40:136, 40:138-40:156, 40:158-40:184, 40:186-40:187, 40:189-40:200, 40:202-40:207, 40:210-40:226, 41:01-41:04, 41:05 <sup>2</sup> , 41:06-41:25, 44:09, 44:46, 44:75, 44:90, 44:129, 44:131, 45:01- 45:14, 47:02, 47:03 <sup>w</sup> , 50:01:01-50:02, 50:04-50:05, 50:07-50:19
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, 13:08Q-13:23, 13:25-13:35, 13:37-13:63N, 15:01:01:01-15:01:04, 15:01:06- 15:01:18, 15:01:20-15:01:31, 15:03:01-15:07:02, 15:12, 15:14, 15:19-15:20, 15:24-15:27:03, 15:30, 15:32-15:36, 15:38:01-15:40, 15:42-15:43, 15:45- 15:50, 15:53-15:54, 15:56-15:58, 15:60-15:63, 15:65- 15:66, 15:68-15:71, 15:73-15:75, 15:77-15:79N, 15:81-15:87, 15:91-15:92, 15:94N, 15:96-15:98, 15:101-15:107, 15:109-15:111N, 15:113, 15:116- 15:118, 15:122-15:123, 15:125-15:129, 15:131- 15:132, 15:135-15:138, 15:140-15:142, 15:145- 15:147, 15:150-15:152, 15:154-15:160, 15:163- 15:167, 15:169, 15:171-15:175, 15:178-15:179, 15:181N-15:185, 15:187-15:188, 15:190N, 15:192- 15:193, 15:195, 15:199, 15:201-15:207, 15:210- 15:212, 15:217-15:220, 15:224-15:225, 15:227- 15:228, 15:231-15:237, 15:239-15:245Q, 15:247- 15:251, 15:253, 15:255-15:262N, 15:264, 18:12, 27:01-27:21, 27:24-27:91, 27:93-27:99, 35:10, 35:13, 35:16, 35:28, 35:63, 35:69, 35:80, 35:207, 37:01:01- 37:07, 37:09-37:37, 38:03-38:04, 38:25, 39:02:01- 39:02:02, 39:08, 39:13:01-39:13:02, 39:22-39:23, 39:49, 40:01:01-40:07, 40:09-40:16, 40:18-40:24, 40:26-40:40, 40:42-40:67, 40:70-40:105, 40:107- 40:165, 40:167-40:226, 41:01-41:25, 42:11, 44:02:01:01-44:02:21, 44:02:23-44:05:04, 44:07- 44:11, 44:13-44:165, 45:01-45:14, 47:01:01:01-

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63 <sup>8</sup>	160 bp, 330 bp	1070 bp	22, 44, 45, 47, 54	*08:87, 44:02:01:01-44:02:26, 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, 44:142Q, 44:145, 44:148-44:149N, 44:151-44:152, 44:162, 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, <b>C*15:02:04</b>
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-49:25, 50:01:01-50:02, 50:04-50:08, 50:10-50:13, 50:15- 50:19, 51:15, 51:62, 51:106, 52:25, 54:03, 56:01:01- 56:02, 56:04, 56:07-56:08, 56:13-56:14, 56:16-56:17, 56:20:01-56:20:02, 56:24-56:30, 56:33-56:38N, 59:04, 82:01-82:03, <b>C*03:12, C*03:19, C*03:102</b>
66 <sup>6</sup>	90 bp, 240 bp	800 bp	57	*55:14, 57:01:01-57:44, 57:46-57:50, 57:52-57:60, 58:36, <b>C*06:72</b>
67 <sup>6,13</sup>	90 bp	1070 bp	5, 13, 15, 17, 39, 55, 56, 58, 60, 61, 62, 71	*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, 58:37-58:39N, <b>C*02:06<sup>w</sup>,    02:47<sup>w</sup></b>
68 <sup>6</sup>	95 bp	1070 bp	8, 18, 22, 35, 37, 38, 39, 44, 51, 5102, 5103, 53, 78	*07:65 <sup>w</sup> , 07:134 <sup>w</sup> , 08:32, 18:01:01-18:11, 18:13- 18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:65, 18:67-18:83, 35:01:01-35:08:04, 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,

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69 <sup>6,10</sup>	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, 15:04, 15:07:01-15:08, 15:11:01-15:12, 15:14-15:15, 15:19, 15:24, 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, 18:19, 27:25, 27:75, 35:14:01-35:14:02, 35:43:01-35:44, 35:62, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135, 35:163, 35:185, 35:213, 39:18, 39:36, 44:146, 46:01:01-46:02, 46:04-46:05, 46:07N, 46:09-46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:26-46:32, 46:34-46:36, 46:38, 51:61:01-51:61:02, 52:21, 54:06, 55:21, 56:03, 73:01-73:02, <b>A*26:68,</b> <b>A*68:56, C*02:56, C*06:20, C*12:50</b>
70 <sup>14</sup>	360 bp	1070 bp	Bw4	*07:27, 07:36, 07:38, 07:81, 07:149, 08:02-08:03, 08:52, 08:78, 13:01:01-13:04, 13:06-13:08Q, 13:10- 13:23, 13:25-13:38, 13:40-13:63N, 15:13:01- 15:13:02, 15:16:01-15:17:02, 15:23-15:24, 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, 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, 27:90:01-27:99, 37:01:01- 37:04:02, 37:06-37:10, 37:12-37:36, 38:01:01-38:42, 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-

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71	350 bp	1070 bp	Bw6	*07:02:01-07:26, 07:28-07:35, 07:37, 07:39-07:80, 07:82-07:148, 07:150-07:176, 08:01:01-08:01:20, 08:04-08:05, 08:07-08:51, 08:53:01-08:77, 08:79- 08:105, 13:09, 13:39, 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, 15:257-15:264, 18:01:01:01- 18:08, 18:10-18:15, 18:17N-18:53, 18:55-18:66, 18:68-18:83, 27:08, 27:12, 27:18, 27:26, 27:33, 27:40, 27:42, 27:44, 27:89, 35:01:01:01-35:72, 35:74-35:220, 37:05, 37:11, 37:14 <sup>w</sup> , 37:37, 39:01:01:01-39:01:01:03, 39:01:03-39:01:14, 39:02:01-39:20, 39:22-39:79, 40:01:01-40:12, 40:14:01-40:16, 40:18, 40:20-40:40, 40:42-40:46, 40:48-40:75, 40:77-40:95, 40:97-40:108, 40:111- 40:116, 40:118N-40:156, 40:158-40:187, 40:189- 40:200, 40:202-40:226, 41:01-41:25, 42:01:01-42:02, 42:04-42:17, 44:09, 44:46, 44:75, 44:90, 44:129, 44:131, 45:01-45:14, 46:01:01-46:36, 46:38, 47:02, 47:03 <sup>w</sup> , 48:01:01-48:17, 48:19-48:28, 50:01:01- 50:02, 50:04-50:19, 54:01:01-54:11, 54:13-54:28, 55:01:01-55:05, 55:07-55:57, 56:01:01-56:06, 56:08- 56:20:02, 56:22-56:38N, 57:12, 67:01:01-67:03, 73:01-73:02, 78:01:01-78:07, 81:01-81:06, 82:01- 82:03, 83:01
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, 07:166-07:176, 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- 08:105, 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, 41:02:01-41:02:04, 41:04,

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<sup>1</sup>Alleles 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 inherit feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

<sup>2</sup>The 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.

<sup>3</sup>The 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.

<sup>4</sup>For several HLA Class I alleles 1<sup>st</sup> and/or 4<sup>th</sup> 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.

<sup>5</sup>Due 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, 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\*15:51 allele will be amplified by primer mix 45, the C\*03:129 allele will be amplified by primer mix 49, the C\*01:73 allele will be amplified by primer mix 50, the C\*15:25 allele will be amplified by primer mix 53, the C\*01:73 and C\*15:39 alleles will be amplified by primer mix 55, the C\*15:02:04 allele will be amplified by primer mix 64, the C\*03:12, C\*03:19 and C\*03:102 alleles 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 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.

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

<sup>7</sup>Primer 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.

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<sup>8</sup>Primer 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.

<sup>9</sup>Primer mix 33 has pronounced tendencies of unspecific amplifications.

<sup>10</sup>Primer mixes 25, 43, 44, 50 and 69 have a tendency to giving rise to primer oligomer formation.

<sup>11</sup>The B\*57 and B\*58 alleles might be faintly amplified by primer mix 33.

<sup>12</sup>The C\*17:01 to C\*17:04 alleles might be faintly amplified by primer mix 49.

<sup>13</sup>Primer 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.

<sup>14</sup>The Bw4-associated HLA-A specificities A9, A23, A24, A2403, A25 and A32 are not amplified by the primer pair in primer mix 70.

<sup>15</sup>Primer 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.

<sup>16</sup>Primer 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 <sup>1</sup>	Size of control band <sup>2</sup>	DR serology <sup>3</sup>	Amplified HLA-DRB alleles <sup>4,5</sup>
<b>73<sup>7,8</sup></b>	205 bp, 255 bp	<b>515 bp</b>	1	*01:01:01-01:02:08, 01:04-01:21, 01:22 <sup>w</sup> , 01:23-01:38, 01:40N-01:53
<b>74</b>	200 bp	430 bp	103	*01:03, 01:39N, 01:42
<b>75<sup>7</sup></b>	200 bp, 215 bp	430 bp	15	*15:01:01-01-15:81
<b>76</b>	210 bp	430 bp	16	*16:01:01-16:05:02, 16:07-16:19
<b>77<sup>5,6,7</sup></b>	120 bp, 220 bp	430 bp	3, 17, 18, 11	*03:01:01:01-03:75, 03:77-03:84, 03:86, 11:07, 11:53, 11:103, 11:105, 11:107, 11:125, 15:25
<b>78<sup>5,6,7</sup></b>	80 bp, 210 bp	430 bp	3, 17, 11, 13, 14, 6	*03:01:01:01-03:01:20, 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, 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, 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-13:143, 14:16, 14:19, 14:21, 14:82, 14:95, 14:109
<b>79<sup>6,7</sup></b>	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, 11:13:01 <sup>w</sup> -11:13:02 <sup>w</sup> , 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 <sup>w</sup> -14:32:02 <sup>w</sup> , 14:33, 14:40-14:41, 14:47-14:49, 14:51, 14:63, 14:65 <sup>w</sup> , 14:67, 14:77-14:78, 14:80-14:81, 14:83, 14:85, 14:89, 14:94, 14:98, 14:102, 14:106, 14:108-14:109, 14:115, 14:119, 14:121
<b>80<sup>6,7,8</sup></b>	100 bp, 175 bp	430 bp	3,4	*04:01:01-04:05:11, 04:05:13-04:133

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<b>81<sup>7</sup></b>	210 bp, 235 bp	430 bp	7, 13, 14	*07:01:01:01-07:01:04, 07:03-07:22, 12:22, 13:17, 13:116, 14:50
<b>82<sup>7</sup></b>	170 bp, 215 bp, 250 bp	<b>515 bp</b>	8, 12, 14	*08:01:01-08:19, 08:21-08:49, 11:67, 12:04, 12:16, 12:22, 14:11, 14:15, 14:68, 14:93
<b>83<sup>6,7</sup></b>	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
<b>84</b>	175 bp	430 bp	10,11,13	*03:76, 10:01:01-10:04, 11:59, 11:80, 11:83, 11:87, 13:27, 13:41, 13:71, 13:129
<b>85<sup>6,7</sup></b>	100 bp, 170 bp	430 bp	11, 3, 8	*03:08, 03:65, 08:31, 08:41, 11:01:01-11:70, 11:72-11:129, 11:131-11:134
<b>86<sup>6,7</sup></b>	85 bp, 105 bp	430 bp	12, 8	*08:32, 12:01:01-12:37
<b>87<sup>8</sup></b>	215 bp	430 bp	6, 8, 11, 13, 14, 1403	*03:76, 08:20-08:21, 11:01:01-11:04:10, 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- 11:129, 11:131-11:134, 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, 13:130-13:143, 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, <b>DRB3*02:27</b>
<b>88<sup>7,8</sup></b>	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, 11:01:01-11:06:03, 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- 11:134, 12:02:01-12:02:05, 12:13, 12:15-12:16, 12:18-12:21, 12:23, 12:26-12:27, 12:31N-12:33, 12:37, 13:01:01-13:02:01, 13:02:03-13:02:07, 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-

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				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, 13:138-13:143, 14:15-14:16, 14:22, 14:24-14:25, 14:27, 14:37, 14:53, 14:73, 14:105, 14:128
89 <sup>5</sup>	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, 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, 13:123-13:143, 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
90 <sup>6,7</sup>	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, 08:08, 11:69, 11:82, 13:45, 14:01:01-14:01:02, 14:04, 14:07:01-14:07:02, 14:10, 14:16, 14:22, 14:25-14:26, 14:28, 14:31-14:32:02, 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, DRB4*01:03:01:02N
91 <sup>6,7,9</sup>	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, 14:01:01-14:02, 14:04-14:11, 14:13-14:14, 14:16-14:18, 14:19 <sup>w</sup> , 14:20, 14:21 <sup>w</sup> , 14:22-14:23:03, 14:26, 14:28-14:36, 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 <sup>w</sup> , 14:110-14:114, 14:117-14:127, 14:129-14:131, 15:27, 15:34, 15:66
92 <sup>6,7,8</sup>	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, 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,

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				13:47, 13:55, 13:119, 14:01:01-14:01:03, 14:03:01-14:05:04, 14:07:01-14:08, 14:10- 14:12:02, 14:14-14:16, 14:18, 14:22-14:23:03, 14:25-14:28, 14:31-14:32:02, 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, 14:122-14:131, 15:21 <sup>w</sup> , 16:04 <sup>w</sup> , 16:18 <sup>w</sup>
93 <sup>7,8</sup>	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 <sup>8,10</sup>	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 <sup>11</sup>				Negative control

<sup>1</sup>Alleles 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 inherit feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

<sup>2</sup>The 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.

<sup>3</sup>The 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.

<sup>4</sup>For several DRB alleles 1<sup>st</sup> and/or 3<sup>rd</sup> 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.

<sup>5</sup>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.

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

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<sup>7</sup>Individual 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.

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

<sup>9</sup>Primer 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.

<sup>10</sup>The 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.

<sup>11</sup>Primer 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\*80:02 alleles

		Well <sup>6</sup>																							
		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)																									
Length of int.																									
pos. control <sup>1</sup>																									
5'-primer(s) <sup>2</sup>																									
3'-primer(s) <sup>3</sup>																									
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 <sup>4</sup>	ser <sup>5</sup>																										
*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, 01:16N-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, 01:80-01:83:01, 01:84- 01:94, 01:96-01:98, 01:100- 01:122	A1, Null, -	1				4																					
*01:01:23, 01:01:48, 01:08, 01:14-01:15N, 01:30, 01:79, 01:99	A1, Null, -	1																									
*01:12, 01:19	A1, -	1	3																								
*01:13	-	1		4						11		13		15													
*01:21	-	1	3	4																							
*01:28	-	1		4						11				15													
*01:43	-	1		4						10																	
*01:51	-	1		4					8	10																	
*01:83:02	-	1		w																							
*01:95	-	1		4	5													17									
*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21- 02:01:81, 02:01:83-02:16, 02:18-02:22:02, 02:24:01- 02:33, 02:36-02:45, 02:47, 02:49-02:54, 02:57-02:61, 02:63-02:69, 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, 02:136-02:168, 02:170- 02:236, 02:238-02:242, 02:244-02:308, 02:310- 02:337, 02:339-02:392	A2, Low A2, A203, A210, A2/19, 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	-																	20		22							
*02:55	-	2				8													21		23						
*02:78	A2	w	4															20		22							
*02:135	-	2								13																24	
*02:169	-	2	4																								
*02:237	-	2									14	16							18		21						
*02:243	-	2																									
*02:309	-	2							12	14																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 <sup>4</sup>	ser <sup>5</sup>																									
*03:01:01:01-03:01:18, 03:01:20-03:01:22, 03:01:24- 03:07, 03:09-03:11N, 03:13- 03:17:02, 03:19-03:23:02, 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, 03:153-03:161N	A3, 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	Null, -		3																							
*03:12	-		3	4																					23	
*03:18, 03:135	-	1		4									13													
*03:24, 03:50	A3, -		3					8					13													
*03:30	-		3		5								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 <sup>7</sup>	-		3	4								11													23	
*03:95	-												13	14		16										
*03:152, 24:92 <sup>8</sup>	-		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, 11:131-11:132	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													
*23:01:01-23:13, 23:15-23:55	A23(9), Null, -				5	6																				
*23:14:01-23:14:02, 24:24, 24:71 <sup>9</sup>	A9, -				5	6	7																			
*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-24:88, 24:90N-24:91, 24:93, 24:95- 24:113, 24:115-24:128, 24:130-24:137, 24:139- 24:187, 24:189-24:203, 24:205-24:210, 24:212, 24:214, 24:216-24:221	A24(9), Low A24(9), A2403, A9, Null, -						5	7																		
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.: 55S

## 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 <sup>4</sup>	ser <sup>5</sup>																									
*24:14-24:15, 24:51-24:53, 24:57, 24:64, 24:94, 24:114, 24:138, 24:188, 24:222N	A24(9), Null, -					5																				
*24:18, 24:204, 24:213	A24(9)/ A3, -					5	7																		23	
*24:19, 24:44	A9, -					5	7			11																
*24:82	-					5	7																		21	
*24:89, 24:129	-							7																		
*25:01:01-25:04, 25:07- 25:12N, 25:14-25:16, 25:18- 25:22	A25(10) , Null, -								8	9			13													
*25:05	-								8	9		12	13											20		
*25:06	-								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, 26:79-26:80	A26(10) , A10, Null, -								8	10		13														
*26:01:21, 26:04, 26:34, 26:73	A26(10) , -								8	10																
*26:02, 26:29, 26:49	A26(10) , -								8	10		w														
*26:03:01-26:03:02, 26:06, 26:21	A26(10) , -								8		11	13												23		
*26:05	A26(10)								8			13													23	
*26:07:01-26:07:02, 26:64	A26(10) , -									10		13														
*26:09	A26(10)								8	10	12															
*26:16	-							7		10		13														
*26:19	-				4					10		13	14													
*26:22	A26(10)								8	10		13	14										21			
*26:30	-								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	
*29:01:01-29:06, 29:08N- 29:12, 29:15-29:18, 29:20- 29:27, 29:29-29:38, 29:40- 29:45	A29(19) , Null, -																14									
*29:07	-							6								14										
*29:13	-															14			17							
*29:14	-															14	16									
*29:19	-															14			19							
*29:28	-							8								14										
*29:39	-															14		17	19							
*30:01:01-30:04:02, 30:06- 30:07, 30:09-30:20, 30:22- 30:54, 30:58-30:70N	A30(19) , Null, -																15									
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	

101.701-24/06 – 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 allele <sup>4</sup>	ser <sup>5</sup>																											
*30:08	-				4											15												
*30:55	-														13	15												
*30:56	-							6								15												
*30:57	-														14	15												
*31:01:02-31:02, 31:05-31:07, 31:09-31:28, 31:30-31:34, 31:36-31:61, 31:63-31:70	A31(19), Null, -																16											
*31:03	-														12		16											
*31:04	A31(19)														12		16								24			
*31:08	-					5											16											
*31:29	-					6											16											
*31:35	-															15	16	17										
*31:62	-															16								22				
*32:01:01-32:01:13, 32:02-32:06-32:12, 32:14, 32:16-32:37, 32:39-32:55:01	A32(19), Null, -									9								17										
*32:01:14, 32:03, 32:38	-																	17										
*32:04	-		3						9																			
*32:05	-					5											16	17										
*32:13	-					5			9									17										
*32:15	-							8	9								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, 33:54-33:64	A33(19), A19, -																		18									
*33:13, 33:48	-									10					14		18											
*33:19	-							7										18										
*33:22	-																	18		21								
*33:24	-																	18						23				
*33:51	-							8										16	18									
*33:53	-					5																						
*34:01:01-34:01:02, 34:05-34:06	A34(10), -								8			11	12															
*34:02:01-34:04, 34:07, 34:10N	A34(10), Null, -		3						8			11	12															
*34:08	-		3						8			11	12	13														
*34:09	-		3						8			12													24			
*36:01, 36:03, 36:05	A36, -	1																						22				
*36:02	-	1	3																					22	23			
*36:04	A36	1		4																				22				
*43:01	A43									10		12	13															
*66:01, 66:04-66:08, 66:11, 66:13-66:14, 66:17-66:19	A66(10), -								8			11		13														
*66:02-66:03, 66:16	A66(10), A10, -								8			12													24			
*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-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 <sup>4</sup>	ser <sup>5</sup>																									
*68:01:01:01-68:04, 68:06-68:12, 68:13:02-68:14, 68:16-68:19, 68:21:01-68:28, 68:30-68:44, 68:46-68:65, 68:67-68:70, 68:72-68:83, 68:85-68:96	A68(28), A28, Null, -								8													20				
*68:05, 68:15, 68:20	A68(28), -								8													20		23		
*68:13:01, 68:66	-				4				8													20				
*68:29	-								8												18	20	21			
*68:45	-							7	8													20				
*68:71	-							8				13										20				
*68:84	-							8	10													20				
*69:01	A69(28)							8														21				
*74:01-74:06, 74:08-74:12N, 74:14N-74:17	A74(19), Null, -																				19					
*74:07	A74(19)																			17	19					
*74:13	-										13										19					
*80:01:01-80:01:01:02	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	-								9																	
B*18:27	-							6																		
C*03:174, C*08:69	-				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	

<sup>1</sup>The 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, 5, 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.

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

<sup>3</sup>The nucleotide position, in the 2<sup>nd</sup> or 3<sup>rd</sup> 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://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>4</sup>The 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.

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



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**Lot No.: 55S****Lot-specific information**

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.

<sup>5</sup>The 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.

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

<sup>7</sup>The 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.

<sup>8</sup>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.

<sup>9</sup>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.

‘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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Lot-specific information

		INTERPRETATION TABLE																							
		HLA-B low resolution SSP																							
		Amplification patterns of the B*07:02 to B*83:01 alleles																							
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
<b>Length of spec.</b>		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
<b>PCR product(s)</b>		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
<b>Length of int. pos. control<sup>1</sup></b>		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
<b>5'-primer(s)<sup>2</sup></b>		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		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-specific information

INTERPRETATION TABLE																								
HLA-B low resolution SSP																								
Amplification patterns of the B*07:02 to B*83:01 alleles																								
Well																								
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64									
5' -TCg <sup>3'</sup> 387	5' -Tgt <sup>3'</sup> 193	5' -Cgt <sup>3'</sup> 193	5' -gtg <sup>3'</sup> 603	5' -gCc <sup>3'</sup> 282	5' -gCg <sup>3'</sup> 572	5' -gtc <sup>3'</sup> 538	5' -ATC <sup>3'</sup> 309	5' -gtt <sup>3'</sup> 299	5' -TCA <sup>3'</sup> 355	5' -Agg <sup>3'</sup> 499	5' -TCT <sup>3'</sup> 499	5' -ggA <sup>3'</sup> 499	5' -ggC <sup>3'</sup> 209	5' -ggT <sup>3'</sup> 368	5' -TCA <sup>3'</sup> 355									
5' -gTC <sup>3'</sup> 538	5' -ATC <sup>3'</sup> 309	5' -gtt <sup>3'</sup> 299	5' -gCc <sup>3'</sup> 282	5' -gAA <sup>3'</sup> 499	5' -ATC <sup>3'</sup> 309	5' -ATC <sup>3'</sup> 309	5' -ATC <sup>3'</sup> 435	5' -ATC <sup>3'</sup> 309	5' -ggA <sup>3'</sup> 206	5' -ggG <sup>3'</sup> 209	5' -Agg <sup>3'</sup> 363	5' -ggC <sup>3'</sup> 209												
5' -CCT <sup>3'</sup> 527	5' -TCT <sup>3'</sup> 435	5' -ATC <sup>3'</sup> 309	5' -ggT <sup>3'</sup> 311	5' -ggT <sup>3'</sup> 311	5' -CTC <sup>3'</sup> 259	5' -CTC <sup>3'</sup> 259	5' -CCG <sup>3'</sup> 175	5' -CCG <sup>3'</sup> 175	5' -Agg <sup>3'</sup> 418	5' -TGT <sup>3'</sup> 418	5' -Agg <sup>3'</sup> 418	5' -ggA <sup>3'</sup> 363	5' -ggC <sup>3'</sup> 209	5' -ggC <sup>3'</sup> 209	5' -ggC <sup>3'</sup> 209									
5' -TgC <sup>3'</sup> 262	5' -CTC <sup>3'</sup> 259	5' -gTC <sup>3'</sup> 538	5' -Cgt <sup>3'</sup> 559	5' -Cgt <sup>3'</sup> 559	5' -CAG <sup>3'</sup> 559	5' -CCC <sup>3'</sup> 256	5' -CCC <sup>3'</sup> 256	5' -TAC <sup>3'</sup> 369	5' -TAC <sup>3'</sup> 369	5' -ggT <sup>3'</sup> 362	5' -ggT <sup>3'</sup> 362	5' -ggA <sup>3'</sup> 363	5' -ggC <sup>3'</sup> 209											
5' -Cgt <sup>3'</sup> 420	5' -CCC <sup>3'</sup> 256	5' -ggT <sup>3'</sup> 311																						
5' -CCA <sup>3'</sup> 538	5' -Tgc <sup>3'</sup> 272	5' -ggA <sup>3'</sup> 317	5' -ggT <sup>3'</sup> 311																					
5' -gCT <sup>3'</sup> 605	5' -gtg <sup>3'</sup> 603	5' -AgC <sup>3'</sup> 363																						
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.: 55S

## Lot-specific information

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HLA-B allele <sup>4,14</sup>	ser. <sup>5</sup>																								
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**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**

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

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HLA-B allele <sup>4</sup>	ser. <sup>5</sup>																									
*08:01:01-08:01:20, 08:05, 08:08N, 08:10-08:11, 08:15, 08:18-08:19N, 08:22-08:24, 08:27, 08:29-08:31, 08:33-08:34, 08:39, 08:41-08:48, 08:51, 08:53:01-08:53:02, 08:56:01- 08:59:01, 08:61, 08:63-08:64, 08:66-08:69, 08:71-08:73, 08:75, 08:80-08:83, 08:86N, 08:90- 08:93, 08:95-08:100, 08:104- 08:105	B8, Null, -		26						32																48	
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*08:17, 08:54	-	26					32		35																48	
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*08:25	-		26	27																					48	
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 101.701-24u/06u – without *Taq* pol., IFU-02

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51																			71	72	-		*08:26, 08:50, 08:62, 08:85, 08:94, 42:07 <sup>6</sup>				
51																			71	72	-		*08:28, 08:37				
51																68		71	72	-					*08:32		
51																			71	72	-		*08:35				
51																			71	72	-		*08:36				
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51	53																		71	72	-		*08:49				
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51	53																		71	72	-		*08:60, 08:76				
51																			71	72	-		*08:65				
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51	53								63										71	72	-		*08:87				
51																			71	72	-		*08:88, 08:102				
51																			71		-		*08:89				
																			71		-		*08:103				
																									B13, Null, -	*13:01:01-13:01:06, 13:17, 13:20, 13:22:01-13:23, 13:25, 13:28-13:29, 13:43, 13:50, 13:52, 13:57, 13:60-13:61, 13:63N	
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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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101.701-24/06 – including *Taq* pol., IFU-01  
 101.701-24u/06u – without *Taq* pol., IFU-02

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HLA-B allele <sup>4</sup>	ser. <sup>5</sup>																										
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*13:03	-				27	28																					
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*13:31	-			27	28					34																	
*13:36	-			27	28					34								41									
*13:39	-				28					34								41									
*13:41	-			27	28					34																	
*13:46	-			27	28				32																		
*13:48	-			27	28																						
*13:53	-			27	28																						
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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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																								ser. <sup>5</sup>	HLA-B allele <sup>4</sup>				
	50							62					70			B13										*13:02:06			
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			52														71		-										*14:21
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 <sup>4</sup>	ser. <sup>5</sup>																										
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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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*27:14, 27:81	B27, -																40								48		
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*27:19	B27																	40	41								
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																								ser. <sup>5</sup>		HLA-B allele <sup>4</sup>
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			52		56				62											70	-			*27:41		
					56				62											70	-			*27:52, 27:67		
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								60	62										70	-				*27:77		
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																				68	71	B35			*35:01:10	
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 <sup>4</sup>	ser. <sup>5</sup>																														
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*35:163, 35:213	-																	41	42												
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*35:186	-												36			41	42														
*35:191	-												36			41	42														
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*37:12	-					32								37				44													
*37:14	-																41	44													
*37:28	-									35	37						41	44													
*37:34	-																41	44													
*37:35	-												36	37			41	44													
*38:01:01-38:02:02, 38:02:04, 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, 38:38-38:42	B38(16), B16, Null, -					29																					45	46	47		
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*38:04, 38:25	-																	45	47												
*38:05, 38:33	B38(16), -					30												45	46	47											
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*38:26	-		29															45	46												
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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																								ser. <sup>5</sup>			HLA-B allele <sup>4</sup>					
				55												68		71		-				*35:81, 35:96, 35:109, 35:157								
		51															68		71	72	-						*35:87					
				53													68		71		-						*35:115					
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		50																62				71			-			*35:207				
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																		62			70		-				*37:28					
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HLA-B allele <sup>4</sup>	ser. <sup>5</sup>																								
*38:30	-					29		32														46	47		
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*39:01:01:01-39:01:01:03, 39:01:03-39:01:08, 39:01:10- 39:01:14, 39:03, 39:05:01- 39:06:02, 39:09, 39:11, 39:14- 39:15, 39:24:01, 39:26-39:29, 39:31, 39:35, 39:37-39:38Q, 39:40:01N-39:41, 39:44, 39:46, 39:48, 39:51-39:57, 39:59-39:62, 39:64-39:68, 39:70-39:71, 39:73, 39:75, 39:77, 39:79	B3901, Low B39, B39(16), Null, -					29															45	47	48		
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*39:01:15	-					29															45	47	48		
*39:02:01, 39:08	B3902, B39(16)					29					35										45		48		
*39:02:02, 39:13:01-39:13:02, 39:23, 39:49	B3902, B39(16), -										35										45		48		
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*39:19:01	B39(16)																				42	45	47	48	
*39:19:02	B39(16)					29															42	45	47	48	
*39:22	-					29															45	47	48		
*39:24:02	-					29															45	47			
*39:36	-					29															47	48			
*39:39:01	-					29					35										45		48		
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																									ser. <sup>5</sup>	HLA-B allele <sup>4</sup>			
																									-	*38:30			
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																											*39:01:01:01-39:01:01:03, 39:01:03-39:01:08, 39:01:10- 39:01:14, 39:03, 39:05:01- B3901, Low B39, B39(16), Null, - 39:06:02, 39:09, 39:11, 39:14- 39:15, 39:24:01, 39:26-39:29, 39:31, 39:35, 39:37-39:38Q, 39:40:01N-39:41, 39:44, 39:46, 39:48, 39:51-39:57, 39:59-39:62, 39:64-39:68, 39:70-39:71, 39:73, 39:75, 39:77, 39:79		
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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 <sup>4</sup>	ser. <sup>5</sup>																								
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 101.701-24u/06u – without *Taq* pol., IFU-02

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50								61	62										71		B61(40)			*40:03, 40:20		
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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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 101.701-24u/06u – without *Taq* pol., IFU-02

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

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49	?											61	62																				*40:74, 40:149, 40:210			
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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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 101.701-24u/06u – without *Taq* pol., IFU-02

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																								ser. <sup>5</sup>	HLA-B allele <sup>4</sup>			
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49	?							58	60			62									70				-		*40:117	
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49	?	52										61									71				-		*40:166	
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		52																		71				-			*42:08	
	51	52																		71	72			-			*42:09	
	51											62									71	72			-			*42:11
	51	52	53																	71	72			-			*42:13	
	51	52																		71				-			*42:14	
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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 <sup>4</sup>	ser. <sup>5</sup>																										
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*44:09	B45(12)				28														41								
*44:10	B44(12)				28												35			41							
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																								ser. <sup>5</sup>	HLA-B allele <sup>4</sup>									
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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.
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	--	--	----------

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.: 55S

## 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 <sup>4</sup>	ser. <sup>5</sup>																												
*44:25, 44:50	-				28													41											
*44:31	B44(12)				28																								
*44:37:01-44:37:02, 44:64:01-44:64:02	-				28	30													41										
*44:40, 44:130	B44(12), -											35					40	41											
*44:41:01-44:41:02, 44:53, 44:99, 44:138Q	B44(12), -				28																								
*44:44	-											35					40	41											
*44:46, 44:75, 44:129	-				28													41											
*44:47, 44:65	-				28																								
*44:49	-		26	28														41											
*44:54	B44(12)		27	28																									
*44:57	-			w														41											
*44:60, 44:110	-		27	28														41											
*44:62	-			28						32	33							41											
*44:83, 44:145	-																	41											
*44:90	-			28														41											
*44:95	-			28														41											
*44:97	-			28														41											
*44:106	-		27	28																									
*44:127	-			28														41											
*44:131	-																	41											
*44:140	-			28								35						41											
*44:146	-			28														41											
*44:150	-	25		28	30													41											
*44:156	-		26									35						41											
*45:01, 45:05, 45:07, 45:11-45:14	B45(12), -			28						32		35															48		
*45:04	-			28						32																	48		
*45:06	-			28						32		35															48		
*45:08	-			28						32																	48		
*45:09	-			28						32			36	37												48			
*45:10	-		28						32		34															48			
*46:01:01-46:01:06, 46:04-46:05, 46:07N, 46:09-46:10, 46:14-46:16, 46:20, 46:22-46:24, 46:26-46:31, 46:34-46:36, 46:38	B46, Null, -									31			36																
*46:01:07	-									31			36																
*46:02	B46									31			36																
*46:03, 46:08, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02, 46:25	B46, -									31			36																
*46:06	-									31			36																
*46:11	-									31																			
*46:12	-		27						31			36																	
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-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. <sup>5</sup>	HLA-B allele <sup>4</sup>		
				53				58	60		62								70		-			*44:25, 44:50			
49				53							62									70		B44(12)			*44:31		
											62									70		-			*44:37:01-44:37:02, 44:64:01-44:64:02		
				53							62									70		B44(12), -			*44:40, 44:130		
				53							62 63									70		B44(12), -			*44:41:01-44:41:02, 44:53, 44:99, 44:138Q		
				53							62 63									70		-			*44:44		
				53							61 62									71		-			*44:46, 44:75, 44:129		
				53							62									70		-			*44:47, 44:65		
				53							62 63									70		-			*44:49		
				53							62									70		B44(12)			*44:54		
				53							62									70		-			*44:57		
				53							62									70		-			*44:60, 44:110		
				53							62									70		-			*44:62		
				53							62 63									70		-			*44:83, 44:145		
				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									70		-				*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		
						54				61 62	65								71		B45(12), -			*45:01, 45:05, 45:07, 45:11-45:14			
						54				61 62	65								71		-				*45:04		
				52	54				61 62	65									71		-				*45:06		
					54				61 62	64									71		-				*45:08		
					54				61 62										71		-				*45:09		
					54				61 62										71		-				*45:10		
						52	55												69 71		B46, Null, -			*46:01:01-46:01:06, 46:04-46:05, 46:07N, 46:09-46:10, 46:14-46:16, 46:20, 46:22-46:24, 46:26-46:31, 46:34-46:36, 46:38			
				50	52	55													69 71		-				*46:01:07		
				w	55														69 71		B46					*46:02	
					52	55													71		B46, -					*46:03, 46:08, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02, 46:25	
				49	52	55													71		-					*46:06	
					52	55													71		-					*46:11	
					52	55													69 71		-					*46:12	
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-specific information

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HLA-B allele <sup>4</sup>	ser. <sup>5</sup>																										
*46:17	-							31				36	37														
*46:18	-								31																		
*46:32	-								31				36														
*46:33	-								31			36						41									
*47:01:01:01-47:01:02, 47:06-47:08	B47, -				28																						
*47:02	B47				28																						
*47:03	B47				28																						
*47:04-47:05	-			28	29																						
*48:01:01-48:01:03, 48:07, 48:09, 48:11, 48:19-48:20, 48:22, 48:27	B48, -											35													48		
*48:02:01-48:02:03, 48:25	B48, -										35	36					41							48			
*48:03:01-48:03:02	B48										35													48			
*48:04, 48:24	B48, -										35													48			
*48:05, 48:08	B48, -	25									35													48			
*48:06	-																							48			
*48:10, 48:12	B48, -									35														48			
*48:13	-									35														48			
*48:14	-									35	36													48			
*48:15	-	25								35														48			
*48:16	-									35														48			
*48:17	B48/40									35														48			
*48:18	-									35																	
*48:21, 48:26	-				29					35														48			
*48:23	-									35	36													48			
*48:28	-									35		39												48			
*49:01:01, 49:01:03-49:01:04, 49:06, 49:08-49:10, 49:12-49:17, 49:19N, 49:22-49:24	B49(21), Null, -			28																							
*49:01:02, 49:11	B49(21), -			28																							
*49:02	B49(21)			28																							
*49:03	-																										
*49:04-49:05	B49(21), -			28								36															
*49:07	-			28						34																	
*49:18	-			28					33																		
*49:20	-			28						35																	
*49:21	-			28																							
*49:25	-	26																									
*50:01:01-50:01:03, 50:04-50:05, 50:08, 50:10-50:11, 50:13, 50:16, 50:18-50:19	B50(21), -			28																					48		
*50:02	B45(12)			28						35															48		
*50:06	-			28																					48		
*50:07	-																								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		

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

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Lot No.: 55S

## 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. <sup>5</sup>	HLA-B allele <sup>4</sup>		
				52	55												69	71						-	*46:17		
				52	55												64							71	-	*46:18	
				52	55	w												69	71						-	*46:32	
	50	52		55																71					-	*46:33	
	50				56												62				70				B47, -	*47:01:01:01-47:01:02, 47:06-47:08	
	50					56											61	62				71				B47	*47:02
	50					56							w	62					70	w				B47	*47:03		
	50													62						70					-	*47:04-47:05	
																	57	62				71	72	B48, -	*48:01:01-48:01:03, 48:07, 48:09, 48:11, 48:19-48:20, 48:22, 48:27		
49																	62						71	B48, -	*48:02:01-48:02:03, 48:25		
																	62						71	B48	*48:03:01-48:03:02		
														57	62							71	B48, -	*48:04, 48:24			
														62								71	B48, -	*48:05, 48:08			
														57	62							71	72	-	*48:06		
														62								71	72	B48, -	*48:10, 48:12		
														62								71		-	*48:13		
														62								71	72	-	*48:14		
														57	62							71	72	-	*48:15		
														57								71	72	-	*48:16		
49															62							71	72	B48/40	*48:17		
														57	62							70	72	-	*48:18		
														62								71		-	*48:21, 48:26		
49														57	62							71		-	*48:23		
														57								71	72	-	*48:28		
														58	59	62	65				70		B49(21), Null, -	*49:01:01, 49:01:03-49:01:04, 49:06, 49:08-49:10, 49:12-49:17, 49:19N, 49:22-49:24			
														58		62	65				70		B49(21), -	*49:01:02, 49:11			
														59	62	65					70		B49(21)	*49:02			
														59	62	65					70		-	*49:03			
														58	59	62					70		B49(21), -	*49:04-49:05			
														58	59	62					70		-	*49:07			
														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			
																59	61	62	65				71	B50(21), -	*50:01:01-50:01:03, 50:04-50:05, 50:08, 50:10-50:11, 50:13, 50:16, 50:18-50:19		
														59	61	62	65				71		B45(12)	*50:02			
														59	62	65					71		-	*50:06			
														59	61	62	65				71		-	*50:07			
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-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 <sup>4</sup>	ser. <sup>5</sup>																									
*50:09	-				28																				48	
*50:12	-				28																				48	
*50:14	-				28					33															48	
*50:15	-				28																				48	
*50:17	-				28													41							48	
*51:01:01, 51:01:03, 51:01:05- 51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26- 51:02:01, 51:02:03, 51:02:05- 51:03, 51:07:01, 51:09:01, 51:11N-51:12, 51:13:02-51:14, 51:16-51:19, 51:21-51:23, 51:26- 51:33, 51:38-51:41N, 51:43, 51:48-51:53, 51:55, 51:57-51:58, 51:60, 51:65-51:67, 51:69-51:77, 51:79-51:80, 51:82-51:88, 51:90- 51:91, 51:94-51:96, 51:98N, 51:100, 51:102, 51:105, 51:107- 51:111, 51:113-51:115, 51:117, 51:120-51:130, 51:133-51:134, 51:136-51:138, 51:140, 51:142, 51:145-51:146	B51(5), B5102, B5103, Null, -									33																
*51:01:02, 51:02:02, 51:05, 51:07:02, 51:09:02, 51:89, 51:103, 51:116, 51:119, 51:132	B51(5), B5102, -									33																
*51:01:04, 51:02:04, 51:13:01, 51:24:01, 51:34-51:35, 51:92, 51:99, 51:131, 51:143	B51(5), B5102, -																									
*51:01:09	B51(5)									33															48	
*51:01:21, 51:01:25, 51:24:03- 51:24:04	B51(5), -									33															48	
*51:04, 51:46, 51:56:01- 51:56:02, 51:139	B51(5), -									33								41								
*51:06:01-51:06:02, 51:59, 51:135	B51(5), -									33																
*51:08, 51:20, 51:44N, 51:141	B51(5), Null, -									32	33															
*51:10	-																									48
*51:15	-																									
*51:24:02	B51(5)																									48
*51:36	-									32																
*51:37, 51:63	-									33		36														
*51:42	B44(12)																	41								
*51:45	-																	36								
*51:54, 51:78:01-51:78:02	-									33																
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-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. <sup>5</sup>			HLA-B allele <sup>4</sup>	
					59	61	62						71			-											*50:09	
						61	62			65			71			-											*50:12	
					59	61	62						71			-											*50:14	
					59	61			65			71			-												*50:15	
						61	62		65			71			-												*50:17	

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.		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 <sup>4</sup>	ser. <sup>5</sup>																										
*51:61:01-51:61:02	-									33																	
*51:62	-																										
*51:64	-			27						33																	
*51:68	-			26						33																	
*51:81	-																										
*51:93, 51:144	-																										
*51:97	-									32	33		36														
*51:101	-										33												45				
*51:104, 51:118N, 51:147	Null, -										33																
*51:106	-										33																
*51:112	-										33																
*51:148	-			27																							
*52:01:01-52:01:01:02, 52:01:03, 52:01:06-52:01:08, 52:01:11-52:01:14, 52:01:16, 52:04-52:05, 52:07-52:08, 52:10:01-52:13, 52:15, 52:17- 52:18, 52:22-52:24, 52:27-52:31	B52(5), -										33																
*52:01:02, 52:01:04, 52:01:09, 52:02-52:03, 52:06:01-52:06:02, 52:09	B52(5), -										33																
*52:01:05, 52:01:15, 52:14	B52(5), -																							46			
*52:01:10	-										33																
*52:16	-										33	35															
*52:19	-									32	33																
*52:20	-										33																
*52:21	-										33																
*52:25	-																										
*52:26	-									30	33																
*53:01:01-53:01:07, 53:05, 53:08:01-53:08:02, 53:10, 53:16, 53:18, 53:20-53:21, 53:23-53:27, 53:29	B53, -													36					41								
*53:02	-													36					41								
*53:03, 53:09, 53:11-53:13	B53, -													36					41								
*53:04, 53:07, 53:19	B53, -																		41								
*53:06	-													36					41								
*53:14	-			27										36					41								
*53:15	-													36					41								
*53:17:01-53:17:02	-													36					41								
*53:22	-													36	37				41								
*53:28	-										33	36							41								
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-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. <sup>5</sup>	HLA-B allele <sup>4</sup>	
					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		
					54				60							68	70							-	*51:81		
								59	60							68	70							-	*51:93, 51:144		
					54			59	60							68	70							-	*51:97		
					54			59	60							68	70							-	*51:101		
					54			59	60								70							Null, -	*51:104, 51:118N, 51:147		
					54			59	60							65	68	70						-	*51:106		
					54			58	59	60									70					-		*51:112	
										60							68	70						-		*51:148	

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

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HLA-B allele <sup>4</sup>	ser. <sup>5</sup>																								
*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	B54(22), Null, -																								
*54:01:02, 55:01:07, 55:02:01- 55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41- 55:43, 55:47-55:48, 55:50, 55:57 <sup>11</sup>	B55(22), B54(22), B22, -																								
*54:03	-																								
*54:04, 54:15	-																								
*54:06	-															36									
*54:09, 54:14	-															36									
*54:11	B54(22)																								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(22), B22, Null, -																								
*55:04, 55:08, 55:13, 55:27, 55:46, 55:49, 56:15, 56:19N, 56:22 <sup>12</sup>	B55(22), B56(22), Null, -																								
*55:09, 55:24	B22, -														34										
*55:14	-															36					41				
*55:17, 55:28	-																								
*55:18	-															35									
*55:20	-														32										
*55:21	-																								
*55:22	B55(22)														34										
*55:23, 55:32, 56:18, 56:31- 56:32 <sup>13</sup>	-																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(22), Null, -																								
*56:02, 56:04	B56(22)																								
*56:03	B22																36								
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.: 55S

## 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. <sup>5</sup>			HLA-B allele <sup>4</sup>
			52		56							63	64								71		B54(22), 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			
			52		56							64									71		B55(22), B54(22), B22, -	*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 <sup>11</sup>			
			52		56							63	65							71		-			*54:03		
			52		56							63								71		-			*54:04, 54:15		
			52		56							63				69	71				-					*54:06	
			52		56							63								71		-			*54:09, 54:14		
			52		56							63								71		B54(22)			*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(22), B22, 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(22), B56(22), Null, -	*55:04, 55:08, 55:13, 55:27, 55:46, 55:49, 56:15, 56:19N, 56:22 <sup>12</sup>					
			52		56		59												71		B22, -			*55:09, 55:24			
			52		56								66						71		-			*55:14			
			52		56		59												71		-			*55:17, 55:28			
												62	64							71		-			*55:18		
	51	52	54	56															71		-			*55:20			
			52		56		w					64					69	71			-					*55:21	
			52		56														71		B55(22)			*55:22			
			52		56														71		-			*55:23, 55:32, 56:18, 56:31-56:32 <sup>13</sup>			
			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(22), 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(22)			*56:02, 56:04			
			52		56													69	71		B22				*56:03		
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-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 <sup>4</sup>	ser. <sup>5</sup>																								
*56:05:01	B56(22)									33															
*56:05:02	B56(22)									33															
*56:06	B78									33										42					
*56:07	B56(22)																								
*56:09	-												36					41							
*56:10	B55(22)																								
*56:11-56:12	B56(22), B55(22)																			41					
*56:13	B56(22)									32															
*56:17, 56:33	-																								
*56:20:02	-																								48
*56:21	-									33															
*56:23	-																								
*56:25, 56:37	-																								
*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	B57(17), -												36					41							
*57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47	B57(17), -												36												
*57:02:01-57:03:02, 57:17, 57:28N, 57:32, 57:39, 57:42, 57:46, 57:57	B57(17), Null, -																		41						
*57:04	B57(17)									30									41						
*57:05	-																		41						
*57:07	-																		41						
*57:09	-									32									41						
*57:12	-																		41						
*57:14	-																36		41						
*57:24	-																36		41						
*57:45, 57:51	-									28								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	B58(17), Null, -																	36		41					
*58:01:03, 58:02, 58:06, 58:16, 58:25-58:26, 58:38	B58(17), -																	36							
*58:07	-																	36	37						
*58:08:01	B17																33								
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.: 55S

## 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. HLA-B allele <sup>4</sup> ser. <sup>5</sup>				
				56	59	64	w	65	67	71	B56(22)	*56:05:01																
			52	56	59	64				71	B56(22)	*56:05:01																
			52	56	59					71	B56(22)	*56:05:02																
			52	56	59		64		w	71	B78	*56:06																
			52	56				65		70	B56(22)	*56:07																
			52	56						71	-	*56:09																
			52	56				64	67	71	B55(22)	*56:10																
			52	56						71	B56(22), B55(22)	*56:11-56:12																
			52	54	56				65	71	B56(22)	*56:13																
								65		71	-	*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																
							60		66	70	B57(17), -	*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																
							60		66	70	B57(17), -	*57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47																
							60		66	70	B57(17), Null, -	*57:02:01-57:03:02, 57:17, 57:28N, 57:32, 57:39, 57:42, 57:46, 57:57																
							60		66	70	B57(17)	*57:04																
50							60		66	70	-	*57:05																
			53				60		66	70	-	*57:07																
			53				60		66	70	-	*57:09																
								66		71	-	*57:12																
				55			60		66	70	-	*57:14																
			53				60		66	70	-	*57:24																
							58	60		70	-	*57:45, 57:51																
49							60		66	70	-	*57:59																
							60		67	70	B58(17), 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																
							60		67	70	B58(17), -	*58:01:03, 58:02, 58:06, 58:16, 58:25-58:26, 58:38																
							60		67	70	-	*58:07																
			54				59 60		67	70	B17	*58:08:01																
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-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 <sup>4</sup>	ser. <sup>5</sup>																										
*58:08:02	-									33																	
*58:09	-												36					41									
*58:17N	Null												36					41									
*58:18	-			27									36														
*58:20	-																								45		
*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, -									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	-																										
C*02:23, C*04:77	-		25																								
C*03:05, C*03:25, C*03:27, C*03:143, C*03:167	-				27																						
C*03:12, C*03:19	Cw3, -																										
C*03:102	-																	41									
C*03:129	-																										
C*06:72	-																										
C*07:02:30, C*08:16:02	-								31																		
C*07:46	-								32																		
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-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. <sup>5</sup>	HLA-B allele <sup>4</sup>		
					59	60						67		70			-									*58:08:02		
			55			60						67		70			-									*58:09		
												67		70			Null									*58:17N		
						60						67		70			-									*58:18		
						60						67		70			-									*58:20		
						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, -		*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														w			-								C *01:73
																			C *02:06, C *02:47									
																			C *02:23, C *04:77									
																			C *03:05, C *03:25, C *03:27, C *03:143, C *03:167									
																			Cw3, -		C *03:12, C *03:19							
																			-									C *03:102
49																			-									C *03:129
																			-									C *06:72
																			-									C *07:02:30, C *08:16:02
																			-									C *07:46
																			-									C *15:02:04
			53																-									C *15:25
				55															-									C *15:39
																			-									C *15:51
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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101.701-24u/06u – without *Taq* pol., IFU-02

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**Lot-specific information**

<sup>1</sup>The 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.

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

<sup>3</sup>The nucleotide position, in the 2<sup>nd</sup> or 3<sup>rd</sup> 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://www.ebi.ac.uk/imgt_hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>4</sup>The 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.

<sup>5</sup>The 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.

<sup>6</sup>The 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.

<sup>7</sup>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.

<sup>8</sup>The B\*14:08 and the B\*39:25N, 39:30, 39:32-39:34, 39:47, 39:50 and 39:74 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.

<sup>9</sup>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

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

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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.

<sup>10</sup>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.

<sup>11</sup>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.

<sup>12</sup>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.

<sup>13</sup>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.

<sup>14</sup>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 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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## Lot-specific information

## INTERPRETATION TABLE

## DR low resolution SSP typing

## Amplification patterns of the DRB1\*01:01 to DRB1\*10:04 alleles

	Well <sup>6</sup>	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
		205	200	205	200	205	200	215	200	210	205	200	205	200	210	205	200	210	205	200	205	200	205	200	205
Length of spec.																									
PCR product(s)																									
Length of int. pos. control <sup>1</sup>																									
5'-primer(s) <sup>2</sup>																									
3'-primer(s) <sup>3</sup>																									
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



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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 <sup>4</sup>	ser <sup>5</sup>																									
*01:01:01-01:02:08, 01:04-01:21, 01:23-01:38, 01:40N-01:41, 01:43-01:53	DR1, Null, -	73																								
*01:03, 01:39N	DR103, Null		74																							
*01:22	-	w																								
*01:42	-	73	74																							
*03:01:01:01-03:01:20, 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	DR17(3), DR3, Null, -					77	78											89								
*03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74	DR18(3), -					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	-					77	78				83	85														
*03:10	DR17(3)					77	78													91	92					
*03:42, 03:69	-					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, 04:123-04:133	DR4, Null, -								80																	
*04:62, 04:69, 04:73, 04:105:01-04:105:02, 04:122	-							80											90							
*07:01:01:01-07:01:04, 07:03-07:22	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	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	DR8, -									82																
*08:08	-									82								88	90							
*08:09, 14:15 <sup>7</sup>	DR8									82								88		92						
*08:20, 13:18, 13:47, 13:55 <sup>8</sup>	DR13(6), -																	87	88	89	92					
*08:21	-									82								87	88		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



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

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Lot No.: 55S

## 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 <sup>4</sup>	ser <sup>5</sup>																								
*08:31, 08:41, 11:67 <sup>9</sup>	DR11(5), -									82		85		88											
*08:32	-									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															
*10:01:01-10:04	DR10, -									84															
*11:01:01-11:01:17, 11:04:01-11:04:10, 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	DR11(5), -											85	87	88											
*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	DR11(5), DR11(5)/DR13 (6), -						78					85	87	88											
*11:05	DR11(5)											85		88											
*11:07, 11:53, 11:103, 11:105, 11:107, 11:125	DR11(5), -					77				83	85														
*11:08:01-11:08:02, 11:18-11:19:03, 11:42, 11:57	DR11(5), -											85	87												
*11:13:01-11:13:02	DR11(5)							w			85						91	92							
*11:17, 11:52	DR11(5), -										85						91	92							
*11:22, 11:98, 11:104	-										85														
*11:23, 11:25, 11:96	DR11(5), -										85	87	88				92								
*11:26, 11:34	DR11(5), -						79				85														
*11:31, 11:45, 11:64, 11:119	-										85	87					92								
*11:55	-										85		88				92								
*11:59, 11:80, 11:83, 11:87	-						78			84	85	87	88												
*11:69, 11:82	-										85		88		90										
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



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.	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 <sup>4</sup>	ser <sup>5</sup>																										
*11:73, 11:79, 11:131-11:132	-						78							85	87												
*11:89	-													85						92							
*12:01-01-12:01:04, 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	DR12(5), 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(5), Null, -													86	88												
*12:04	-									82				86													
*12:16	-									82				86	88												
*12:22	-									81	82			86													
*13:01:01-13:02:01, 13:02:03-13:02:07, 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	DR13(6), DR14(6), Null, -									78					87	88	89										
*13:02:02	DR13(6)						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	DR13(6), 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	DR13(6), -														87	88	89										
*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	DR13(6), -														87	89											
*13:09	-															88	89										
*13:13, 13:119, 14:84, 14:116 <sup>10</sup>	DR13(6), -														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

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.	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 <sup>4</sup>	ser <sup>5</sup>																									
*13:15, 13:19, 13:53, 13:57, 13:104	DR13(6), -					78	79							87	88	89										
*13:17, 13:116	DR13(6), -					78		81								88										
*13:26:01-13:26:02	-						79									87	88	89								
*13:27, 13:41, 13:71	DR13(6), -					78				84				87	88	89										
*13:43	-					78								87	88			91	92							
*13:44, 13:86	-						79									89										
*13:45	-					78								87	88		90	92								
*13:67, 13:103	-													87	88											
*13:85	-					78	79							87		89										
*13:122	-					78									87											
*13:129	-					78				84				88	89											
*14:01:01-14:01:02, 14:04, 14:07:01-14:07:02, 14:10, 14:26, 14:28, 14:31, 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	DR14(6), DR1404, -																	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	DR14(6), 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(6), 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	DR1403, DR14(6), -							79							87	89	92									
*14:05:01-14:05:04, 14:14, 14:23:01, 14:23:03, 14:36, 14:43-14:45, 14:56, 14:59, 14:64, 14:91, 14:96, 14:100, 14:103, 14:123, 14:127	DR14(6), -																89	91	92							
*14:11	DR14(6)									82								91	92							
*14:16	DR6						78								87	88		90	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

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.	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 <sup>4</sup>	ser <sup>5</sup>																													
*14:18, 14:81	DR6, -							79										89	91	92										
*14:19, 14:21, 14:109	DR14(6), -							78	79								87	89	w											
*14:22, 14:105	DR14(6), -																87	88	90	91	92									
*14:24	-							79									88	89												
*14:25, 14:53, 14:128	DR13(6), -																87	88	90	91	92									
*14:27	DR14(6)							79								87	88	89	90	92										
*14:32:01-14:32:02	-								w										90	91	92									
*14:37	-																88	89	90											
*14:42	-																89		92											
*14:46, 14:52	-																		91											
*14:49, 14:119	DR14(6), -							79										90	91	92										
*14:50	DR14(6)									81								90	91	92										
*14:58	-																90		92											
*14:65	-							w									89	91	92											
*14:68, 14:93	-									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												
*15:01:01:01-15:20, 15:22-15:24, 15:26, 15:28-15:33, 15:35-15:65, 15:67-15:81	DR15(2), DR2, Null, -			75																										
*15:21	-		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	DR16(2), DR2, Null, -			76																										
*16:04, 16:18	DR16(2), -			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*01:01:01-01:01:01, DRB4*01:03:01:01-03:01:08	DR53, -																				94									
DRB4*01:03:01:01-02N	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

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

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**Lot No.: 55S**

#### Lot-specific information

<sup>1</sup>The 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.

<sup>2</sup>The codon, and in parenthesis the nucleotide, in the 2<sup>nd</sup> exon or 1<sup>st</sup> 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](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>3</sup>The codon, and in parenthesis the nucleotide, in the 2<sup>nd</sup> 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](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>4</sup>The 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\*11171 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.

<sup>5</sup>The 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.

<sup>6</sup>Primer 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.

<sup>7</sup>The 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.

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

<sup>9</sup>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.

<sup>10</sup>The DRB1\*13:13 and 13:119 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.: 55S

Lot-specific information

			CELL LINE VALIDATION SHEET															
			HLA-A low resolution primer set															
			Well															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		Lot No.:	201314901	201211702	201213303	201211704	201211705	201211706	201211707	201211708	201211709	201211710	201211711	201211712	201211713	201211714	201211715	201211716
	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		-	+	-	-	-	-	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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Lot No.: 55S

Lot-specific information

CELL LINE VALIDATION SHEET										
HLA-A low resolution primer set										
	IHWC cell line	A*	Well							
			17	18	19	20	21	22	23	24
			201211717	201211718	201211719	201211720	201211721	201211722	201211723	201211724
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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Lot No.: 55S

Lot-specific information

				Prod. No.:	Well												
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
<b>CELL LINE VALIDATION SHEET</b>				<b>HLA-B low resolution SSP kit</b>													
1	9001 SA	*07:02		201204201	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280 LK707	*52:01	*73:01	201204202	-	-	-	-	-	-	+	-	-	-	-	-	
3	9011 E4181324	*52:01		201204203	-	-	-	-	-	-	+	-	-	-	-	-	
4	9275 GU373	*15:10	*53:01	201204204	-	-	-	-	-	-	+	-	-	+	-	-	
5	9009 KAS011	*37:01		201204205	-	-	-	-	-	-	-	-	-	+	-	-	
6	9353 SM	*39:01	*51:01	201320806	-	-	-	+	-	-	+	-	-	-	-	-	
7	9020 QBL	*18:01		201204207	-	-	-	-	-	-	-	-	-	+	-	+	
8	9025 DEU	*35:01		201204208	-	-	-	-	-	-	-	-	+	-	-	-	
9	9026 YAR	*38:01		201320809	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107 LKT3	*54:01		201204210	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051 PITOUT	*44:03		201204211	-	-	-	+	-	-	-	-	-	-	-	-	
12	9052 DBB	*57:01		201204212	-	-	-	-	-	-	-	-	+	-	-	-	
13	9004 JESTHOM	*27:05		201204213	-	-	-	+	-	-	-	-	-	-	-	+	
14	9071 OLGA	*15:01	*15:20	201204214	-	-	-	-	-	-	+	-	-	+	-	-	
15	9075 DKB	*40:01		201204215	-	-	-	+	-	-	-	-	-	-	-	-	
16	9037 SWEIG007	*40:02		201204216	-	-	-	-	-	-	-	-	-	-	-	-	
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.: 55S

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.:	201204217	201204218	201210019	201204220	201204221	201320822	201320823	201320824	201320825	201315027	201204226	20131204229	201204230	201204231	201204232
		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

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 “Instructions for Use” (IFU)

Lot No.: 55S

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-B low resolution SSP kit																			
				Prod. No.:	Well														
					57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
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.: 55S

Lot-specific information

CELL LINE VALIDATION SHEET																			
DR low resolution primer set																			
				Well															
				73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88
				201209001	201209002	201209003	201209004	201209005	201209006	201209007	201209008	201209009	201209010	201209011	201209012	201209013	201209014	201209015	201209016
<b>IHWC cell line</b>				<b>DRB1</b>															
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.: 55S

Lot-specific information

CELL LINE VALIDATION SHEET		
DR low resolution primer set		
		Well
	Prod. No.:	89 90 91 92 93 94 95
		201209017 201209018 201209019 201209020 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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Lot No.: 55S

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:** 55S

**Expiry date:** 2015-December-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	2013-149-01	9	2012-117-09	17	2012-117-17
2	2012-117-02	10	2012-117-10	18	2012-117-18
3	2012-133-03	11	2012-117-11	19	2012-117-19
4	2012-117-04	12	2012-117-12	20	2012-117-20
5	2012-117-05	13	2012-117-13	21	2012-117-21
6	2012-117-06	14	2012-117-14	22	2012-117-22
7	2012-117-07	15	2012-117-15	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 solutions 1 and 10 were tested by separately adding one 3'-primer. Additional 3'-primers in primer solutions 3, 18 and 19 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, 13, 16, 18 and 19 one 3'-primer was not possible to test.

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
25	2012-042-01	41	2012-042-17	57	2012-042-33
26	2012-042-02	42	2012-042-18	58	2012-042-34
27	2012-042-03	43	2012-100-19	59	2012-042-35
28	2012-042-04	44	2012-042-20	60	2012-042-36
29	2012-042-05	45	2012-042-21	61	2012-042-37
30	2013-208-06	46	2013-208-22	62	2012-042-38
31	2012-042-07	47	2013-208-23	63	2012-042-39
32	2012-042-08	48	2013-208-24	64	2012-042-40
33	2013-208-09	49	2013-208-25	65	2012-042-41
34	2012-042-10	50	2012-042-26	66	2012-042-42
35	2012-042-11	51	2013-150-27	67	2012-148-43
36	2012-042-12	52	2012-042-28	68	2012-042-44
37	2012-042-13	53	2012-042-29	69	2012-042-45
38	2012-042-14	54	2012-042-30	70	2012-042-46
39	2012-042-15	55	2012-042-31	71	2012-042-47
40	2012-042-16	56	2012-042-32	72	2012-042-48

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

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**Lot No.: 55S**

**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, 37, 39 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 62 and 66 one 3'-primer was not possible to test.

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
73	2012-090-01	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	2012-090-20
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 and 88 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<sup>-7</sup>.

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

**Date of approval:** 2013-June-28

**Approved by:**

**Production Quality Control**

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

Visit [www.olerup-ssp.com](http://www.olerup-ssp.com) for  
“Instructions for Use” (IFU)

Lot No.: 55S

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:** 55S

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

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**Lot No.: 55S**

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

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**Lot No.: 55S**

Lot-specific information

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