

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **70S**

Lot-specific information

## Olerup SSP<sup>®</sup> HLA-A-B-DR-DQ SSP Combi Tray

**Product number:** 101.708-24 – including *Taq* pol.  
 101.708-24u – without *Taq* pol.

**Lot number:** 70S

**Expiry date:** 2016-March-01

**Number of tests:** 24 tests

**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. 70S.**

### CHANGES COMPARED TO THE PREVIOUS OLERUP SSP<sup>®</sup> HLA-A-B-DR-DQ SSP COMBI TRAY LOT (43R)

The Lot-specific information for HLA-A-B-DR-DQ Combi Tray including and without *Taq* polymerase is now described in one common Product Insert.

The **HLA-A low resolution** specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP<sup>®</sup>* HLA-A-B-DR-DQ SSP Combi Tray lot was made (**Lot No. 43R**).

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.
3	-	Added	3'-primer added for the A*03:05:02 allele.
5	-	Exchanged	3'-primers exchanged for resolution of the A*23:14:02 and A*23:34 alleles.
8	Exchanged	-	Exchanged 5'-primer for the A*25:17 allele.
9	Exchanged, added	-	5'-primer added for the A*26:72 allele.
11	-	Added	3'-primer added for the A*34:11 allele.
12	-	Added	3'-primer added for the A*25:18 allele.

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13	-	Exchanged	3'-primer exchanged for the A*29:48 allele.
14	Added	-	5'-primer added for the A*30:72 allele.
15	-	Added	3'-primer added for the A*31:01:07 allele.
17	Added	-	5'-primer added for the A*33:51 allele.
18	New	New	New primer pair for the A*74 alleles.
20	Added	Added	Primer pair added for the A*23:57 allele.

The **HLA-B low resolution** specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup* SSP<sup>®</sup> HLA-A-B-DR-DQ SSP Combi Tray lot was made (**Lot No. 43R**).

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

Well	5'-primer	3'-primer	rationale
24	-	Added	3'-primer added for the B*13:12:02 allele.
29	-	Added	3'-primer added for the B*42:19 allele.
38	-	Added	3'-primer added for the B*35:222 allele.
60	-	Added	3'-primer added for the B*57:62 allele.

The **HLA-DR low resolution** specificity and interpretation tables have been updated for the HLA-DRB alleles described since the previous *Olerup* SSP<sup>®</sup> HLA-A-B-DR-DQ SSP Combi Tray lot was made (**Lot No. 43R**).

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

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

The **DQ low resolution** specificity and interpretation tables have been updated for the HLA-DQB1 alleles described since the previous *Olerup* SSP<sup>®</sup> HLA-A-B-DR-DQ SSP Combi Tray lot was made (**Lot No. 43R**).

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

Well	5'-primer	3'-primer	rationale
88	Added	-	5'-primer added for the DQB1*05:21 allele.
89	Added	Added	Primer pair added for the DQB1*06:04:06 and 06:67 alleles, exchanged control primer pair.
90	Added	-	5'-primer added for the DQB1*02:25 allele.
91	-	Added	3'-primer added for the DQB1*03:01:08 allele.
94	Exchanged	Added	5'-primers exchanged, 3'-primer added for the DQB1*04:09 and DQB1*03:01:08 alleles.

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Changes in revision R01 compared to R00:

Primer mix 39 does not amplify the B\*44:10 allele. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R02 compared to R01:

1. Primer mix 18 does not amplify the A\*74:07 allele, and primer mix 10 does not amplify the A\*31:03 and A\*66:15 alleles. This has been corrected in the Specificity and Interpretation tables.

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

Changes in revision R03 compared to R02:

1. Primer mix 68 may have tendencies of unspecific amplifications. A footnote has been added in the Specificity Table.

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Well 96 contains Negative Control primer pairs, that will amplify more than 95% of the Olerup SSP<sup>®</sup> HLA Class I, DRB, DQB1 and DPB1 amplicons as well as amplicons generated by a control primer pair.

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

Length of PCR product	105	200	105	80	75	80
<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>
	<sup>5</sup> -CAC <sup>3</sup>	<sup>5</sup> -Agg <sup>3</sup>	<sup>5</sup> -TTA <sup>3</sup>	<sup>5</sup> -Tgg <sup>3</sup>	<sup>5</sup> -Tgg <sup>3</sup>	<sup>5</sup> -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>
	<sup>5</sup> -TgC <sup>3</sup>	<sup>5</sup> -AAA <sup>3</sup>	<sup>5</sup> -TTg <sup>3</sup>	<sup>5</sup> -CTC <sup>3</sup>	<sup>5</sup> -ggC <sup>3</sup>	<sup>5</sup> -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-DQ SSP Combi Tray

#### CONTENT

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

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

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

The primer set contains 5'- and 3'-primers for grouping the DQB1 alleles into the serological groups DQ2 to DQ9.

*Please note that DQB1 amplifications usually are somewhat less pronounced than e.g. DRB and DQA1 amplifications even when using the same DNA preparation and exactly the same experimental procedures.*

#### 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 21 – HLA-A low resolution primers.

Wells 22 to 64 – HLA-B low resolution primers.

Wells 65 to 87 – HLA-DR low resolution primers.

Wells 88 to 95 – HLA-DQ low resolution primers.

Well 96 – Negative Control.

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

Well No. 1 is marked with the Lot No. '70S'.

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.

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## INTERPRETATION

Only HLA-A alleles will be amplified by the 21 wells of the HLA-A low resolution primer set, **wells 1 to 21**, except that primer mix 4 will amplify the C\*03:174, C\*08:69 and C\*16:56 alleles, primer mix 5 will amplify the B\*18:27 allele and primer mix 8 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 three HLA-C alleles and not by other HLA Class I genes.

Only HLA-B alleles will be amplified by the 43 wells of the HLA-B low resolution, primer set, **wells 22 to 64**, except that the C\*03:05, C\*03:25, C\*03:27, C\*03:143 and C\*03:167 alleles will be amplified by primer mix 24, the C\*01:30 and C\*12:87 alleles will be amplified by primer mix 25, the A\*23:31, A\*24:106, C\*07:231 and C\*16:10 alleles will be amplified by primer mix 27, the C\*07:02:30 and C\*08:16:02 alleles will be amplified by primer mix 28, the C\*01:73 allele will be amplified by primer mixes 28 and 49, the C\*07:46 allele will be amplified by primer mix 29, the A\*24:174 allele will be amplified by primer mix 33, the C\*03:102 allele will be amplified by primer mixes 37 and 59, the C\*03:179 allele will be amplified by primer mix 39, the C\*07:302 allele will be amplified by primer mix 40, the C\*15:51 allele will be amplified by primer mix 41, the C\*03:129 and C\*17:16 alleles will be amplified by primer mix 45, the C\*15:25 allele will be amplified by primer mix 48, the C\*15:39 alleles will be amplified by primer mix 49, the C\*15:02:04 allele will be amplified by primer mix 58, the C\*03:19 allele will be amplified by primer mix 59, the C\*03:102 alleles will be amplified by primer mix 65, the C\*06:72 allele will be amplified by primer mix 60 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 62.

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 65 to 87**. Thus, the interpretation of DR low resolution typings is not influenced by other HLA class II genes.

Only the DQB1 alleles will be amplified by the 8 wells the DQ low resolution primer set, **wells 88 to 95**. Thus, the interpretation of DQ low resolution typings is not influenced the DQB2 and DQB3 genes.

## UNIQUELY IDENTIFIED ALLELES

All the HLA-A alleles, i.e. **A\*01:01 to A\*80:03**, recognized by the HLA Nomenclature Committee in April 2013<sup>1</sup> will be amplified by the primers in the HLA-A low resolution primer set, **wells 1 to 21**. 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 April 2013<sup>1</sup> will be amplified by the primers in the HLA-B low

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resolution primer set, wells 22 to 64. 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 10:05, DRB3\*01:01:02:01 to DRB3\*03:03, DRB4\*01:01:01:01 to DRB4\*01:08, DRB5\*01:01:01 to DRB5\*02:06**, recognized by the HLA Nomenclature Committee in April 2013<sup>1</sup> will be amplified by the primers in the DR low resolution primer set, wells 65 to 87. The HLA-DRB alleles will be grouped into their corresponding serological specificities<sup>5</sup>.

All the DQB1 alleles, i.e. **DQB1\*05:01:01:01 to 05:26, DQB1\*06:01:01 to 06:84, DQB1\*02:01:01 to 02:29, DQB1\*03:01:01:01 to 03:72 and DQB1\*04:01:01 to 04:12**, recognized by the HLA Nomenclature Committee in April 2013<sup>1</sup> will be amplified by the primers in the DQ low resolution primer set. The DQB1 alleles will be grouped into their corresponding serological specificities<sup>6</sup>, i.e.:

DQ5(1) =	DQB1*05:01:01-05:05
DQ6(1) =	DQB1*06:01:01-06:44
DQ2 =	DQB1*02:01:01-02:05
DQ3 =	DQB1*03:06, 03:10, 03:14
DQ7(3) =	DQB1*03:01:01-03:01:06, 03:04, 03:09, 03:13, 03:16, 03:19
DQ8(3) =	DQB1*03:02:01-03:02:05, 03:05:01-03:05:04, 03:07-03:08, 03:11, 03:18
DQ9(3) =	DQB1*03:03:02:01-03:03:04, 03:12, 03:15, 03:17, 03:20
DQ4 =	DQB1*04:01-04:02

<sup>1</sup>HLA-A, HLA-B, HLA-DRB and HLA-DQB1 alleles listed on the IMGT/HLA web page 2013-April-17, release 3.12.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

<sup>2</sup>The A\*36 alleles will give rise to identical amplification patterns as some A\*01 alleles. These alleles can be separated by the A\*01 and A\*36 high resolution SSP primer sets.

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

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

The A\*23:01:01-23:13, 23:15-23:56 and A\*23:58 and the B\*18:27 alleles will give rise to identical amplification patterns. These alleles can be separated by the respective high resolution SSP primer sets.

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

The A\*31:01:02-31:02, 31:05-31:28, 31:30-31:34, 31:36-31:40 and 31:42-31:74 and the A\*33:53 alleles will give rise to identical amplification patterns. These alleles can be separated by the respective high resolution SSP primer sets.

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

<sup>3</sup>The B\*07:174 and the 81:02 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\*08:26, 08:50, 08:62, 08:85 and 08:94 and the B\*42:07 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*13:04, 13:10, 13:21, 13:35 and 13:59 and the 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.

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The B\*14:08 and the B\*39:25N, 39:30, 39:32-39:34, 39:43, 39:47, 39:50, 39:74 and 39:82 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*18:29 and 18:72 and the B\*35:09:01-35:09:03, 35:18, 35:31-35:32:02, 35:37, 35:53N, 35:64:01-35:64:02, 35:68:01-35:68:02, 35:75, 35:88, 35:99, 35:118-35:119, 35:127, 35:151, 35:174 and 35:205 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\*51:104, 51:118N and 51:147 and the B\*58:08:01-58:08:02 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\*51:148 and the B\*53:14 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\*53:30 and the B\*57:45 and 57:51 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, 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 and the B\*56:10 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, 55:23, 55:27, 55:32, 55:46, 55:49 and the B\*56:01:05, 56:15, 56:18-56:19N, 56:22 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.

The B\*57:01:01-57:01:04, 57:01:06-57:03:02, 57:05-57:06, 57:08, 57:10, 57:15-57:20, 57:22-57:23, 57:25-57:30, 57:32-57:44, 57:46, 57:48-57:50, 57:52-57:58 and 57:60-57:64 and the B\*58:36 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, 13:55 and 13:158 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

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

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

<sup>6</sup>The serological split of the DQB1\*05:05-05:26, DQB1\*06:06 to 06:07 alleles, the DQB1\*06:10, 06:13, 06:15-06:24 and 06:27 to 06:84, the DQB1\*02:04-02:29, the DQB1\*03:07-03:09 and 03:11-03:72 alleles and the DQB1:04:0301-04:12 alleles is not known. In this table we have used the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170, and also inferred the serological grouping from the naming of the sequence-defined allele.

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**SPECIFICITY TABLE**

**HLA-A low resolution primer set**

**Specificities and sizes of the PCR products of the 21 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>4,5,6</sup>
<b>1<sup>6,7</sup></b>	120 bp, 145 bp, 225 bp	<b>800 bp</b>	A1, A36	*01:01:01:01-01:04N, 01:06-01:33, 01:35-01:130, 03:18, 03:135, 11:94, 11:112, 36:01-36:05
<b>2<sup>7</sup></b>	175 bp, 215 bp, 255 bp, 365 bp, 415 bp	<b>800 bp</b>	A2, A203, A210, A19, A28	*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, 02:130-02:414, 02:416-02:417
<b>3<sup>11</sup></b>	205 bp, 235 bp	1070 bp	A1, A3, A11, A32, A34, A36	*01:12, 01:19, 01:21, 01:126, 02:338, 03:01:01:01-03:17:02, 03:19-03:74, 03:76-03:94, 03:96-03:134, 03:136-03:166, 11:25, 11:60, 11:130, 24:92, 32:04, 34:02:01-34:04, 34:07-34:10N, 36:02
<b>4</b>	190 bp	<b>800 bp</b>	A1, A2, A3, A11, A26, A30, A36, A68	*01:01:01:01-01:01:22, 01:01:24-01:01:47, 01:01:49-01:04N, 01:06-01:07, 01:09-01:11N, 01:13, 01:16N-01:18N, 01:20-01:29, 01:31N-01:33, 01:35-01:78, 01:80-01:98, 01:100-01:130, 02:78, 02:169, 03:12, 03:18, 03:88, 03:135, 11:01:01-11:27, 11:29-11:52Q, 11:54-11:139, 11:141-11:142, 26:19, 26:72, 30:08, 36:04, 68:13:01, 68:66, <b>C*03:174, C*08:69, C*16:56</b>
<b>5<sup>8,12</sup></b>	135 bp, 200 bp	<b>800 bp</b>	A9, A23, A24, A29, A80	*23:01:01-23:56, 23:58, 24:24, 24:71, 29:07, 29:49, 31:29, 80:01:01:01-80:03, <b>B*18:27</b>
<b>6</b>	175 bp, 205 bp	1070 bp	A2, A23, A24, A26, A33	*02:17:01 <sup>w</sup> -02:17:02 <sup>w</sup> , 11:139, 23:14:01-23:14:02, 24:02:01:01-24:11N, 24:13:01-24:13:02, 24:17-24:50, 24:54-24:56, 24:58-24:63, 24:66-24:91, 24:93, 24:95-24:113, 24:115-24:137, 24:139-24:187, 24:189-24:210, 24:212-24:221, 24:223-24:227, 24:229-24:232N, 26:16, 33:19, 68:45
<b>7</b>	165 bp, 200 bp	<b>800 bp</b>	A2/A28, A3, A10, A11, A25, A26, A32, A34, A66, A68, A69	*01:51, 02:55, 03:24, 03:50, 11:10, 25:01:01-25:16, 25:18-25:22, 26:01:01-26:06, 26:08-26:15, 26:17-26:18, 26:20-26:43:02, 26:45-26:63, 26:65-26:71N, 26:73-26:85, 29:28, 32:15, 33:51, 34:01:01-34:11, 66:01-66:19, 68:01:01:01-68:100, 69:01
<b>8<sup>6,9</sup></b>	75 bp	<b>800 bp</b>	A3, A25, A32	*25:01:01-25:22, 32:01:01-32:01:13, 32:01:15-32:02, 32:04, 32:06-32:37,

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				32:39-32:57, <b>B*07:81, B*08:52, B*18:67, B*38:41, B*53:05, B*53:16</b>
<b>9<sup>6</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, 26:79-26:85, 33:13, 33:48, 43:01, 68:84
<b>10<sup>6,7,8</sup></b>	80 bp, 175 bp, 500 bp	1070 bp	A1, A11, A24, A26, A31, A34, A66	*01:13, 01:28, 03:63, 03:88, 11:01:01-11:27, 11:29-11:52Q, 11:54-11:139, 11:141-11:142, 24:19, 24:44, 26:03:01-26:03:02, 26:06, 26:21, 26:78, 34:01:01-34:08, 34:10N-34:11, 66:01, 66:04-66:11, 66:13-66:14, 66:17-66:19, 80:02
<b>11<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, 34:01:01-34:11, 43:01, 66:02-66:03, 66:16
<b>12</b>	175 bp, 225 bp	1070 bp	A1, A2, A3, A10, A25, A26, A34, A43, A66	*01:01:56 <sup>w</sup> , 01:13, 02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:103, 02:135, 03:01:01:01-03:01:22, 03:01:24-03:07, 03:09-03:11N, 03:13-03:31, 03:33-03:35, 03:37-03:40, 03:42-03:56, 03:58, 03:60-03:71, 03:73-03:87, 03:90-03:106, 03:109-03:110, 03:112-03:141, 03:143-03:151, 03:153-03:166, 25:01:01-25:05, 25:07-25:22, 26:01:01-26:01:20, 26:01:22-26:01:27, 26:02 <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, 26:79-26:85, 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>13<sup>6,7,10,12</sup></b>	80 bp, 115 bp, 200 bp, 240 bp, 460 bp	1070 bp	A26, A29, A31, A34,	*02:237, 02:309, 03:95, 26:19, 26:22, 29:01:01:01-29:53, 31:03-31:04, 32:42, 34:04, 66:09
<b>14<sup>6,12</sup></b>	90 bp, 135 bp, 205 bp	1070 bp	A1, A30	*01:13, 01:28, 03:43, 03:82, 11:113, 30:01:01-30:04:02, 30:06-30:20, 30:22-30:74, 31:35
<b>15</b>	240 bp, 380 bp	1070 bp	A24, A31, A32	*02:237, 03:95, 29:14, 31:01:02-31:74, 32:05, 33:53
<b>16</b>	140 bp, 180 bp	1070 bp	A29, A32	*01:95, 03:43, 03:82, 29:13, 29:39, 31:35, 32:01:01-32:03, 32:05-32:57, 74:07
<b>17</b>	200 bp, 390 bp	1070 bp	A32, A33, A68, A74	*02:243, 29:48, 32:15, 33:01:01-33:01:07, 33:03:01-33:37, 33:39-33:52, 33:54-33:68, 68:29, 74:04
<b>18</b>	340 bp, 375 bp	<b>800 bp</b>	A2, A19, A68, A74	*01:121, 02:65, 02:407, 68:25, 74:01-74:06, 74:08-74:17
<b>19<sup>12</sup></b>	210 bp, 240 bp	<b>800 bp</b>	A2, A210, A25, A30, A68	*02:34-02:35:03, 02:46, 02:48, 02:56:01-02:56:02, 02:62, 02:70, 02:78, 02:103, 02:129, 25:05, 26:54, 68:01:01:01-68:100

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<b>20<sup>6</sup></b>	65 bp, 240 bp, 375 bp	<b>800 bp</b>	A2, A26, A28, A32, A66, A68, A69	*02:55, 02:149, 02:243, 02:309, 23:57, 24:82, 26:22, 31:41, 32:06, 33:22, 66:06, 66:09, 68:29, 69:01
<b>21<sup>6,12</sup></b>	75 bp, 160 bp, 240 bp, 495 bp	<b>800 bp</b>	A2, A26, A68, A80	*02:55, 03:41, 03:63, 03:75, 03:88, 11:130, 24:18, 24:204, 24:213, 26:03:01-26:03:02, 26:05-26:06, 26:21, 26:30, 26:78, 33:24, 36:02, 68:05, 68:15, 68:20, 80:01:01:01- 80:01:01:02, 80:03

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

<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 number 2, 4, 5, 7, 8, 9, 11 and 18 to 21 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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

<sup>3</sup>The serological reactivity of all HLA-A alleles is not known. The grouping of not serologically defined alleles is taken from Tissue Antigens 73, 95-170, 2009.

<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, C\*08:69 and C\*16:56 alleles, primer mix 5 will amplify the B\*18:27 allele and primer mix 8 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 vials 1, 2, 9 and 13 will in many samples give rise to two or three HLA-specific PCR fragments.

<sup>8</sup>Primer mix 5 may give rise to a lower yield of A\*23 alleles than the other A low primer mixes.

<sup>9</sup>Primer mix 8 may weakly amplify the A\*34 alleles.

<sup>10</sup>Primer mix 13 may give rise to a lower yield of HLA-specific PCR product than the other HLA-A low primer mixes.

<sup>11</sup>Primer mix 3 may faintly amplify the A\*30:04:01-30:04:02, 30:06, 30:17 and 30:29 alleles.

<sup>12</sup>Primer mixes 5, 13, 14, 19 and 21 may have a tendency of giving rise to primer oligomer formation.

‘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 43 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>
<b>22<sup>10</sup></b>	285 bp	<b>800 bp</b>	7, 15, 37, 40, 41, 42, 48	*07:02:01-07:06, 07:08-07:18:02, 07:20-07:32, 07:34-07:39, 07:41-07:52, 07:54-07:59, 07:61-07:76, 07:79-07:83, 07:85-07:99, 07:101-07:121, 07:123- 07:138, 07:140-07:164, 07:166-07:190, 08:01:01- 08:05, 08:07-08:08N, 08:10-08:11, 08:13-08:15, 08:17-08:83, 08:85-08:88, 08:90-08:102, 08:104- 08:106, 08:108, 35:66, 35:87, 37:07, 40:15-40:16, 40:30-40:32, 40:34, 40:45, 40:59, 40:80, 40:98, 40:137, 40:160:01-40:160:02, 41:02:01-41:02:05, 41:04, 41:10-41:11, 41:13, 41:18-41:19, 41:23-41:24, 41:27, 42:01:01-42:02, 42:05:01-42:07, 42:09-42:13, 42:15-42:20, 44:150, 44:166, 48:01:01-48:01:04, 48:05-48:12, 48:14-48:20, 48:22, 48:27-48:30, 53:15, 81:01-81:06
<b>23</b>	215 bp	1070 bp	8, 15, 44	*08:01:01-08:05, 08:07-08:25, 08:27-08:49, 08:51- 08:61, 08:63-08:64, 08:66-08:84, 08:86N-08:93, 08:95-08:108, 15:142, 15:180, 35:218, 44:49, 44:156, 49:25, 51:68
<b>24</b>	140 bp, 235 bp	1070 bp	7, 8, 13, 15, 35, 40, 4005, 44, 46, 53, 57, 58	*07:20, 07:24, 07:60, 07:100, 07:131, 08:21, 08:25, 13:01:01-13:04, 13:06-13:08, 13:10-13:23, 13:25- 13:38, 13:40-13:57, 13:59-13:66, 15:07:01-15:07:02, 15:36 <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,</b> <b>C*03:25, C*03:27, C*03:143, C*03:167</b>
<b>25<sup>7,8</sup></b>	130 bp, 265 bp	<b>800 bp</b>	13, 14, 15, 35, 40, 41, 44, 45, 47, 49, 50	*13:01:01-13:04, 13:06-13:13, 13:15-13:23, 13:25- 13:57, 13:59-13:67, 14:01:01-14:02:08, 14:03-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:33, 15:46, 15:53, 15:106, 15:212, 18:44:01-18:44:02, 35:46- 35:47, 35:63, 35:154, 35:207, 35:217, 40:01:01- 40:01:29, 40:07, 40:10:01-40:10:02, 40:14:01-40:16, 40:22N-40:23, 40:25, 40:30-40:34, 40:36, 40:38, 40:42-40:43, 40:45, 40:47-40:49, 40:51-40:55, 40:58- 40:63, 40:65-40:67, 40:69, 40:72:01-40:73, 40:76- 40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:110, 40:112- 40:114, 40:116-40:118N, 40:121, 40:123-40:126,

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<b>26<sup>8</sup></b>	185 bp, 235 bp	<b>800 bp</b>	14, 16, 27, 37, 38, 39, 47, 64, 67	*07:02:32, 14:01:01-14:01:03, 14:07N-14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 27:01-27:05:15, 27:05:17-27:05:19, 27:05:21-27:06, 27:08-27:10, 27:12-27:13, 27:16-27:18, 27:20, 27:23, 27:26-27:27, 27:29, 27:31, 27:35-27:37, 27:39-27:42, 27:44-27:46, 27:48-27:61, 27:64N-27:69, 27:72-27:75, 27:77-27:80, 27:82-27:105, 37:02, 38:01:01-38:02:02, 38:02:04-38:03, 38:07-38:24, 38:26-38:32, 38:34N-38:43, 39:01:01:01-39:01:01:03, 39:01:03-39:01:08, 39:01:10-39:02:01, 39:03, 39:05:01-39:09, 39:11, 39:14-39:15, 39:18, 39:19:02, 39:22, 39:24:01-39:39:01, 39:40:01N-39:44, 39:46-39:48, 39:50-39:62, 39:64-39:71, 39:73-39:75, 39:77, 39:79-39:82, 47:04-47:05, 48:21, 48:26, 67:01:01, 67:03
<b>27<sup>9</sup></b>	180 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, A*24:106, C*07:231, C*16:10</b>
<b>28</b>	290 bp	<b>1070 bp</b>	15, 62, 63, 75, 76, 77, 46	*15:01:01:01-15:01:03, 15:01:06-15:02:06, 15:03:03, 15:04-15:08, 15:10:02-15:11:03, 15:11:05-15:15, 15:17:01:01-15:17:02, 15:19-15:21, 15:24:01-15:28, 15:30-15:36, 15:38:01-15:40, 15:42-15:46, 15:48, 15:50, 15:55-15:58, 15:60, 15:63, 15:65-15:66, 15:70-15:71, 15:73, 15:75-15:79N, 15:81-15:89, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:107, 15:109-15:113, 15:116-15:118, 15:120-15:122, 15:125-15:126, 15:128-15:129, 15:135-15:150, 15:152, 15:154-15:155, 15:157, 15:159-15:160, 15:162-15:172, 15:174-15:175, 15:177-15:179, 15:181N-15:185, 15:187-15:196, 15:199, 15:201-15:209N, 15:211, 15:213-15:219, 15:223-15:225, 15:227-15:228, 15:230-15:234,

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<b>29</b>	165 bp, 220 bp, 285 bp, 330 bp	1070 bp	8, 15, 35, 37, 40, 41, 42, 44, 45, 51, 56, 57, 70, 71, 72	*08:01:01-08:05, 08:08N-08:13, 08:15-08:27, 08:29- 08:36, 08:38-08:48, 08:50-08:73, 08:75-08:76, 08:78, 08:80-08:86N, 08:88, 08:90-08:106, 13:46, 15:03:01- 15:03:04, 15:09-15:10:02, 15:18:01-15:18:05, 15:23, 15:29, 15:37, 15:46-15:47:02, 15:49, 15:51-15:54, 15:61-15:62, 15:64:01-15:64:02, 15:69, 15:72, 15:74, 15:80, 15:83, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:106, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131-15:134, 15:143, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197-15:198, 15:200, 15:210, 15:212, 15:220-15:221, 15:226N, 15:229, 15:235, 15:238, 15:242-15:243, 15:252-15:253, 15:255, 15:259, 15:263, 15:266, 15:274-15:275, 35:87, 37:12, 38:30, 40:12, 40:136, 40:231, 41:01-41:03:02, 41:05-41:09, 41:11-41:17, 41:19-41:27, 42:01:01- 42:02, 42:04-42:08, 42:10-42:15, 42:17-42:19, 44:14- 44:15, 44:18, 44:20, 44:62, 44:100, 44:166, 45:01- 45:14, 51:08, 51:20, 51:36, 51:44N, 51:97, 51:141, 52:19, 55:20, 55:56, 56:13, 57:09, 82:01-82:03, <b>C*07:46</b>
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<b>50<sup>6,14</sup></b>	90 bp, 410 bp	<b>1070 bp</b>	7, 27, 35, 47, 54, 55, 56, 81	*07:65, 27:01 <sup>w</sup> , 27:02:01-27:11, 27:13-27:15, 27:17, 27:19-27:21, 27:24-27:28, 27:30-27:38, 27:40-27:58, 27:60-27:76, 27:78-27:91, 27:93-27:105, 35:76, 35:186, 35:229, 44:90, 44:97, 47:01:01:01-47:03, 47:06-47:08, 54:01:01-54:28, 55:01:01-55:05, 55:07- 55:17, 55:19-55:58, 56:01:01-56:16, 56:18-56:22, 56:24-56:32, 56:34-56:39, 81:01, 82:01-82:03, 83:01
<b>51<sup>6</sup></b>	90 bp, 175 bp	<b>1070 bp</b>	15, 27, 35, 40, 48, 62, 75, 77, 81	*07:174, 13:36, 15:02:01-15:02:06, 15:08, 15:11:01- 15:11:05, 15:13:01-15:13:02, 15:15, 15:21, 15:31, 15:44, 15:55, 15:76 <sup>w</sup> , 15:88-15:89, 15:112, 15:121, 15:139, 15:144, 15:148, 15:170, 15:189, 15:191, 15:194, 15:209N, 15:213-15:215, 15:223, 15:265, 27:24, 35:46, 40:31, 40:45, 40:80, 48:01:01- 48:01:04, 48:04, 48:06-48:07, 48:09, 48:11, 48:15- 48:16, 48:18-48:20, 48:22, 48:24, 48:27-48:30, 56:39 <sup>w</sup> , 81:01-81:06
<b>52</b>	145 bp, 430 bp	<b>1070 bp</b>	40, 44, 49	*40:13, 40:19, 40:109, 40:117, 44:18, 44:25, 44:50, 44:95, 49:01:01-49:01:04, 49:04-49:25, 51:112, 53:30, 54:12, 56:21, 57:45, 57:51, 59:01:01:01-59:05
<b>53<sup>6</sup></b>	120 bp, 210 bp	<b>800 bp</b>	13, 15, 45, 49, 50, 51, 52, 55, 56, 58, 62, 63, 78	*07:78, 07:84, 13:16, 13:31 <sup>w</sup> , 13:48, 13:62, 15:04 <sup>w</sup> , 15:16:01-15:16:03, 15:42, 15:67, 15:95, 15:137 <sup>w</sup> , 15:254, 40:95, 40:148, 40:161, 46:32 <sup>w</sup> , 49:01:01, 49:01:03-49:10, 49:12-49:26, 50:01:01-50:02, 50:04-50:11, 50:13-50:16, 50:18-50:20, 50:31-50:32,

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<b>54</b>	430 bp	1070 bp	27, 40, 44, 45, 51, 52, 53, 57, 58, 59	*18:67, 27:02:01-27:02:02, 27:30, 27:53, 27:57, 27:62, 27:65N, 27:75, 27:77, 27:83, 27:95, 27:102, 37:34, 40:13, 40:19, 40:109, 40:117, 44:06, 44:25, 44:50, 44:95, 51:01:01-51:01:39, 51:01:41-51:24:04, 51:26-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:152, 52:01:01:01-52:19, 52:21-52:31, 53:01:01-53:02, 53:04-53:08:02, 53:10, 53:14-53:30, 57:01:01-57:11, 57:13-57:64, 58:01:01-58:02, 58:04-58:16:01, 58:18-58:29, 58:31N-58:40, 58:42
<b>55<sup>8</sup></b>	145 bp	1070 bp	15, 35, 40, 41, 44, 45, 47, 50, 72	*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, 40:210-40:238, 41:01-41:04, 41:05 <sup>?</sup> , 41:06-41:25, 41:27, 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, 50:07-50:20, 50:31-50:32
<b>56</b>	300 bp	1070 bp	7, 8, 13, 15, 18, 27, 35, 37, 38, 39, 40, 41, 44, 45, 46, 47, 48, 49, 50, 52, 55, 57, 58, 62, 72, 76, 78	*07:54, 07:123, 08:17, 08:38, 08:54, 08:101, 13:01:01-13:04, 13:06, 13:08-13:23, 13:25-13:35, 13:37-13:67, 15:01:01:01-15:01:04, 15:01:06-15:01:18, 15:01:20-15:01:32, 15:03:01-15:07:02, 15:12, 15:14, 15:19-15:20, 15:24:01-15:27:03, 15:30, 15:32-15:36, 15:38:01-15:40, 15:42-15:43, 15:45-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:63, 15:65-15:66, 15:68-15:71, 15:73-15:75, 15:77-15:79N, 15:81-15:87, 15:91-15:92, 15:94N, 15:96-15:98, 15:101-15:107, 15:109-15:111N, 15:113, 15:116-15:118, 15:122-15:123, 15:125-15:129, 15:131-15:132, 15:135-15:138, 15:140-15:142, 15:145-15:147, 15:150-15:152, 15:154-15:160, 15:163-15:167, 15:169, 15:171-15:175, 15:178-15:179, 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,

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<b>57<sup>8,9,12</sup></b>	160 bp, 330 bp	1070 bp	15, 37, 44, 54	*08:87, 44:02:01:01-44:02:29, 44:06, 44:08-44:09, 44:11-44:12, 44:16, 44:19N-44:24, 44:27:01-44:27:02, 44:33-44:34:02, 44:41:01-44:41:02, 44:44, 44:48-44:49, 44:52N-44:53, 44:55, 44:59:01-44:59:02, 44:63, 44:66-44:68, 44:71-44:74, 44:80, 44:83-44:84, 44:86-44:87, 44:89-44:91, 44:93, 44:95, 44:97, 44:99-44:102, 44:104, 44:106, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126:01-44:127, 44:131-44:132, 44:137-44:138Q, 44:142, 44:145, 44:148-44:149N, 44:151-44:152, 44:162, 44:168-44:173, 54:01:01, 54:01:03-54:28, 83:01
<b>58</b>	180 bp, 210 bp	1070 bp	7, 13, 15, 18, 35, 39, 40, 45, 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>
<b>59</b>	180 bp	1070 bp	13, 15, 40, 44, 45, 46, 49, 50, 51, 54, 56	*13:03, 13:48, 15:73, 40:71, 44:10, 44:15, 44:18, 44:140, 45:01, 45:04-45:07, 45:11-45:14, 46:11, 49:01:01-49:03, 49:06, 49:08-49:17, 49:19N-49:26, 50:01:01-50:02, 50:04-50:08, 50:10-50:13, 50:15-50:19, 50:32, 51:15, 51:62, 51:106, 52:25, 54:03, 56:01:01-56:01:04, 56:02, 56:04, 56:07-56:08, 56:13-56:14, 56:16-56:17, 56:20:01-56:20:02, 56:24-56:30, 56:33-56:39, 59:04, 82:01-82:03, <b>C*03:19, C*03:102</b>
<b>60<sup>6,10</sup></b>	90 bp, 240 bp	<b>800 bp</b>	55, 57	*55:14, 57:01:01-57:44, 57:46-57:50, 57:52-57:64, 58:36, <b>C*06:72</b>
<b>61<sup>6</sup></b>	95 bp	1070 bp	7, 8, 18, 35, 37, 38, 39, 44, 51, 52, 53, 78	*07:65 <sup>w</sup> , 07:134 <sup>w</sup> , 08:32, 18:01:01:01-18:11, 18:13-18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:65, 18:67-18:89, 35:01:01:01-35:08:04, 35:08:06-35:09:03, 35:11:01-35:12:03, 35:14:01-35:15, 35:17-35:18, 35:20:01-35:24:02, 35:27,

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<b>62</b> <sup>6,8,10</sup>	115 bp, 150 bp	1070 bp	15, 18, 27, 35, 39, 46, 54, 55, 56, 62, 73, 75, 76	*07:100, 13:31, 13:41, 15:01:01:01-15:01:04, 15:01:06-15:01:16, 15:01:18-15:01:30, 15:01:32, 15:04, 15:07:01-15:08, 15:11:01-15:12, 15:14-15:15, 15:19, 15:24:01-15:24:02, 15:26N-15:28, 15:30, 15:32, 15:34-15:35, 15:38:01-15:38:02, 15:43, 15:45-15:46, 15:50, 15:53-15:54, 15:56-15:58, 15:60, 15:63, 15:66, 15:68, 15:70-15:71, 15:73, 15:75-15:77, 15:79N, 15:81-15:82, 15:85, 15:87, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:105, 15:109-15:111N, 15:113, 15:117-15:118, 15:120, 15:122, 15:125-15:126, 15:128-15:129, 15:135, 15:137, 15:140, 15:142-15:149N, 15:152, 15:154, 15:157, 15:159-15:160, 15:163-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:180-15:184, 15:187, 15:189-15:193, 15:201-15:203, 15:205-15:207, 15:209N, 15:211-15:212, 15:215, 15:217, 15:225, 15:227-15:228, 15:231-15:234, 15:236, 15:239, 15:241, 15:244-15:247, 15:251, 15:256-15:262N, 15:264, 15:267, 15:269-15:270, 15:272N, 18:19, 27:25, 27:75, 35:14:01-35:14:02, 35:43:01-35:44, 35:62, 35:67, 35:79, 35:86, 35:102, 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, 46:34-46:38, 51:61:01-51:61:02, 52:21, 54:06, 55:21, 56:03, 73:01-73:02, <b>A*26:68, A*68:56, C*02:56, C*06:20, C*12:50</b>
<b>63</b> <sup>15</sup>	360 bp	1070 bp	Bw4	
<b>64</b>	350 bp	1070 bp	Bw6	

<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.

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

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

<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 22 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band.

In addition, wells number 25, 26, 27, 31, 37, 40, 41, 47, 49, 53 and 60 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. The grouping of not serologically defined alleles is taken from Tissue Antigens 73, 95-170, 2009.

<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>The HLA-C\*03:05, C\*03:25, C\*03:27, C\*03:143 and C\*03:167 alleles will be amplified by primer mix 24, the C\*01:30 and C\*12:87 alleles will be amplified by primer mix 25, the A\*23:31, A\*24:106, C\*07:231 and C\*16:10 alleles will be amplified by primer mix 27, the C\*07:02:30 and C\*08:16:02 alleles will be amplified by primer mix 28, the C\*01:73, allele will be amplified by primer mixes 28 and 49, the C\*07:46 allele will be amplified by primer mix 29, the A\*24:174 allele will be amplified by primer mix 33, the C\*03:102 allele will be amplified by primer mixes 37 and 59, the C\*03:179 allele will be amplified by primer mix 39, the C\*07:302 allele will be amplified by primer mix 40, the C\*15:51 allele will be amplified by primer mix 41, the C\*03:129 and C\*17:16 alleles will be amplified by primer mix 45, the C\*15:25 allele will be amplified by primer mix 48, the C\*15:39 alleles will be amplified by primer mix 49, the C\*15:02:04 allele will be amplified by primer mix 58, the C\*03:19 allele will be amplified by primer mix 59, the C\*03:102 alleles will be amplified by primer mix 65, the C\*06:72 allele will be amplified by primer mix 60 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 62.

<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 25 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.

<sup>8</sup>Primer mixes 25, 26, 30, 41, 55, 57 and 62 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 mixes 27, 30, 40 and 57 may have tendencies of unspecific amplifications, most pronounced in primer mix 30.

<sup>10</sup>Primer mixes 22, 34, 35, 39, 40, 42, 60 and 62 have a tendency to giving rise to primer oligomer formation.

<sup>11</sup>The B\*15, B\*46, B\*57, B\*58 and C\*03 alleles may be faintly amplified by primer mix 30.

<sup>12</sup>Primer mix 57 may give rise to a lower yield of B\*54 alleles than the other B low primer mixes.

<sup>13</sup>The C\*17:01 to C\*17:04 alleles might be faintly amplified by primer mix 45.

<sup>14</sup>Primer mix 50 might generate a false band of about 800 base pairs. This band should be disregarded when interpreting HLA-B low resolution typings.

<sup>15</sup>The Bw4-associated HLA-A specificities A23, A24, A2403, A25 and A32 are not amplified by the primer pair in primer mix 63.

'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 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</sup>
<b>65</b> <sup>6,7</sup>	205 bp, 255 bp	<b>515 bp</b>	1	*01:01:01-01:02:08, 01:04-01:38, 01:40N-01:58
<b>66</b>	200 bp	430 bp	103	*01:03, 01:39N, 01:42
<b>67</b>	200 bp, 220 bp	430 bp	15	*15:01:01-01-15:94
<b>68</b> <sup>9</sup>	210 bp	430 bp	16	*16:01:01-16:05:02, 16:07-16:23
<b>69</b> <sup>5,6,11</sup>	120 bp, 220 bp	430 bp	3, 17, 18, 11	*03:01:01-01-03:75, 03:77-03:84, 03:86-03:90, 11:07, 11:53, 11:103, 11:105, 11:107, 11:125, 15:25
<b>70</b> <sup>5,11</sup>	80 bp, 210 bp	430 bp	3, 17, 11, 13, 14	*03:01:01-01-03:01:22, 03:04:01-03:06, 03:08- 03:16, 03:18-03:20, 03:22-03:23, 03:25-03:26, 03:28, 03:30-03:31, 03:33-03:34, 03:36-03:37, 03:43-03:48, 03:50-03:52, 03:54-03:68N, 03:70- 03:73, 03:75-03:84, 03:86, 03:89, 08:40, 11:02:01-11:03, 11:11:01-11:11:02, 11:14:01- 11:14:02, 11:16, 11:20-11:21, 11:36, 11:40- 11:41, 11:48, 11:59, 11:63, 11:65:01-11:65:02, 11:68, 11:70, 11:73, 11:76, 11:79-11:80, 11:83, 11:85-11:87, 11:93, 11:118, 11:122, 11:124, 11:127, 11:131-11:132, 11:135, 11:138-11:139, 11:142, 13:01:01-13:04, 13:08, 13:10, 13:15- 13:17, 13:19-13:20, 13:22-13:24, 13:27-13:29, 13:31-13:41, 13:43, 13:45, 13:48, 13:51-13:54, 13:57, 13:59, 13:61:01-13:61:02, 13:63- 13:66:02, 13:68-13:76, 13:78-13:81, 13:83- 13:85, 13:87-13:99, 13:101-13:102, 13:104- 13:107, 13:109, 13:111-13:117, 13:120-13:131, 13:133, 13:135, 13:137N-13:145, 13:147- 13:149, 13:151-13:153, 13:155, 13:159, 14:16, 14:19, 14:21, 14:82, 14:95, 14:109, 14:132, 14:137N
<b>71</b> <sup>5</sup>	85 bp, 210 bp	430 bp	3, 18, 11, 13, 14	*03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74, 03:88, 03:90, 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, 14:135

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<b>72</b> <sup>5,6,7</sup>	100 bp, 175 bp	430 bp	3, 4	*04:01:01-04:05:11, 04:05:13-04:158N
<b>73</b>	210 bp, 235 bp	430 bp	7, 13, 14	*07:01:01:01-07:01:04, 07:03-07:24, 12:22, 13:17, 13:116, 14:50
<b>74</b> <sup>6</sup>	170 bp, 215 bp, 250 bp	<b>515 bp</b>	8, 12, 14	*08:01:01-08:19, 08:21-08:53, 11:67, 12:04, 12:16:01-12:16:02, 12:22, 12:39, 14:11, 14:15, 14:68, 14:93
<b>75</b> <sup>5,6</sup>	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>76</b> <sup>7</sup>	175 bp	430 bp	10	*03:76, 10:01:01-10:05, 11:59, 11:80, 11:83, 11:87, 11:135, 11:142, 13:27, 13:41, 13:71, 13:129
<b>77</b> <sup>5,6</sup>	100 bp, 170 bp	430 bp	11, 3, 8	*03:08, 03:65, 08:31, 08:41, 11:01:01-11:70, 11:72-11:145
<b>78</b> <sup>5,6,9</sup>	85 bp, 105 bp	430 bp	12, 8	*08:32, 08:53, 12:01:01-12:39
<b>79</b> <sup>7,8</sup>	215 bp	430 bp	6, 8, 11, 13, 14, 1403	*03:76, 08:20-08:21, 11:01:01-11:04:11, 11:06:01-11:06:03, 11:08:01-11:12:02, 11:14:01- 11:16, 11:18-11:21, 11:23:01-11:25, 11:27:01- 11:33, 11:35-11:51, 11:54:01-11:54:02, 11:56- 11:66, 11:68, 11:70, 11:72-11:81, 11:83-11:88, 11:90-11:97, 11:99-11:102:02, 11:106, 11:108- 11:124, 11:126-11:135, 11:137-11:142, 11:144- 11:145, 13:01:01-13:02:01, 13:02:03-13:08, 13:10-13:16, 13:18-13:43, 13:45-13:85, 13:87- 13:115, 13:117-13:128, 13:130-13:145, 13:147- 13:161, 14:03:01-14:03:02, 14:12:01-14:12:02, 14:16, 14:19, 14:21-14:22, 14:25, 14:27, 14:40, 14:53, 14:63, 14:67, 14:69, 14:74, 14:77-14:78, 14:84-14:85, 14:98, 14:102, 14:105, 14:109, 14:115-14:116, 14:128, 14:135, 14:137N, <b>DRB3*02:27</b>
<b>80</b> <sup>6,7,8</sup>	195 bp, 225 bp	430 bp	13, 8, 11, 12, 14	*08:01:01-08:02:04, 08:04:01-08:09, 08:11, 08:16-08:17, 08:20-08:22, 08:24, 08:26, 08:28, 08:31, 08:39, 08:41-08:44, 08:50, 08:52, 11:01:01-11:01:17, 11:02:01-11:06:03, 11:09- 11:12:02, 11:14:01-11:16, 11:20-11:21, 11:23:01-11:25, 11:27:01-11:30, 11:32-11:33, 11:35-11:41, 11:43-11:44, 11:46:01-11:51, 11:54:01-11:56, 11:58:01-11:63, 11:65:01-11:70, 11:72, 11:74:01-11:78, 11:80-11:88, 11:90- 11:97, 11:99-11:102:02, 11:106, 11:108-11:118, 11:120-11:124, 11:126-11:129, 11:133-11:135, 11:137-11:142, 11:144-11:145, 12:02:01- 12:02:05, 12:13, 12:15-12:16:02, 12:18-12:21, 12:23, 12:26-12:27, 12:31N-12:33, 12:37, 13:01:01-13:02:01, 13:02:03-13:02:08, 13:04- 13:05:02, 13:07:01-13:09, 13:11:01-13:11:02,

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				13:14:01-13:24, 13:26:01-13:29, 13:31-13:32, 13:34-13:36, 13:38-13:43, 13:45-13:55, 13:57, 13:59, 13:61:01-13:65, 13:67-13:76, 13:78-13:80, 13:83-13:84, 13:87, 13:91-13:93, 13:96:01-13:100, 13:102-13:109, 13:111-13:114, 13:116-13:117, 13:121, 13:123-13:132, 13:135-13:136, 13:138-13:150, 13:153, 13:155, 13:158-13:160, 14:15-14:16, 14:22, 14:24-14:25, 14:27, 14:37, 14:53, 14:73, 14:105, 14:128
<b>81<sup>11</sup></b>	175 bp	430 bp	3, 13, 14, 8	*03:01:01:01-03:07, 03:09, 03:11:01-03:41, 03:43-03:45, 03:47-03:63, 03:66-03:68N, 03:70-03:84, 03:86, 03:88-03:90, 08:20, 13:01:01-13:16, 13:18-13:42, 13:44, 13:46-13:66:02, 13:68-13:102, 13:104-13:115, 13:117-13:121, 13:123-13:158, 13:161, 14:02-14:03:02, 14:05:01-14:06:02, 14:09, 14:12:01-14:14, 14:17-14:21, 14:23:01, 14:23:03-14:24, 14:27, 14:29-14:30, 14:33, 14:36-14:37, 14:40-14:45, 14:47-14:48, 14:51, 14:56, 14:59, 14:63-14:65, 14:67, 14:77-14:78, 14:80-14:81, 14:83-14:85, 14:89, 14:91, 14:94-14:96, 14:98, 14:100, 14:102-14:103, 14:106, 14:108-14:109, 14:115-14:116, 14:121, 14:123, 14:127:01-14:127:02, 14:134-14:136
<b>82<sup>5</sup></b>	100 bp, 140 bp, 155 bp	430 bp	14, 4, 8, 13	*04:62, 04:69, 04:73, 04:105:01-04:105:02, 04:122, 04:146, 08:08, 11:69, 11:82, 13:45, 14:01:01-14:01:02, 14:01:04, 14:04, 14:07:01-14:07:02, 14:10, 14:16, 14:22, 14:25-14:26, 14:28, 14:31-14:32:03, 14:35, 14:37-14:39, 14:49-14:50, 14:53-14:54:01, 14:55, 14:57-14:58, 14:60-14:62, 14:68-14:71, 14:73-14:76, 14:79, 14:82, 14:86-14:88, 14:90, 14:93, 14:99, 14:101, 14:104-14:105, 14:107, 14:110-14:114, 14:117-14:120, 14:122, 14:124-14:125, 14:128-14:129, 14:131, 14:137N-14:140, <b>DRB4*01:03:01:02N</b>
<b>83<sup>5,6,7,10</sup></b>	110 bp, 135 bp, 170 bp	430 bp	14, 3, 9, 11, 12, 13, 15	*03:10, 09:01:02-09:01:05, 09:01:07-09:02:02, 09:04-09:20, 11:13:01-11:13:02, 11:17, 11:52, 13:43, 13:159, 14:01:01-14:02, 14:04-14:11, 14:13-14:14, 14:16-14:18, 14:19 <sup>w</sup> , 14:20, 14:21 <sup>w</sup> , 14:22-14:23:04, 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, 14:117-14:127:02, 14:129-14:134, 14:137N-14:140, 15:27, 15:34, 15:66
<b>84<sup>5,6</sup></b>	110 bp, 175 bp, 225 bp	430 bp	14, 3, 8, 11, 13, 15, 16	*03:10, 08:09, 08:20-08:21, 08:32, 08:35, 08:36:02, 08:53, 11:13:01-11:13:02, 11:17, 11:23:01, 11:25, 11:31, 11:45, 11:52, 11:55,

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				11:64, 11:89, 11:96, 11:119, 13:13, 13:18, 13:43, 13:45, 13:47, 13:55, 13:119, 13:144, 13:146, 13:154, 13:156, 13:158-13:159, 14:01:01-14:01:04, 14:03:01-14:05:04, 14:07:01- 14:08, 14:10-14:12:02, 14:14-14:16, 14:18, 14:22-14:23:04, 14:25-14:28, 14:31-14:32:03, 14:34-14:36, 14:38-14:40, 14:42-14:45, 14:49- 14:50, 14:53-14:65, 14:67-14:79, 14:81-14:82, 14:84-14:93, 14:95-14:97, 14:99-14:105, 14:107, 14:110-14:120, 14:122-14:140, 15:21 <sup>w</sup> , 16:04 <sup>w</sup> , 16:18 <sup>w</sup>
<b>85</b> <sup>6,11</sup>	160 bp, 240 bp	430 bp	52	<b>DRB3*01:01:02:01-01:15, DRB3*02:01-02:29N, DRB3*03:01:01-03:03</b>
<b>86</b> <sup>7,12</sup>	215 bp	430 bp	53	<b>DRB4*01:01:01:01-01:08</b>
<b>87</b>	175 bp	430 bp	51	<b>DRB5*01:01:01-01:14, DRB5*02:02-02:06</b>

<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 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, e.g. the primers in wells 67, 72, 82, 83 and 84.

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

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

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

<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 65 contains the primer pair giving rise to the longer, 515 bp, internal positive control band. In addition, well number 74 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 reactivity of all DRB alleles is not known. The grouping of not serologically defined alleles is taken from Tissue Antigens 73, 95-170, 2009.

<sup>4</sup>For several DRB1 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 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>Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

<sup>6</sup>Individual alleles can give rise to two differently sized specific PCR fragments in primer mixes 65 and 69, 72, 74, 75, 77, 78, 80 and 83 to 85.

<sup>7</sup>Primer mixes 65, 72, 76, 79, 80, 83 and 86 have a tendency to giving rise to primer oligomer formation.

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<sup>8</sup>Primer mixes 79 and 80 may give rise to a lower yield of HLA-specific PCR product than the other DR low resolution primer mixes.

<sup>9</sup>Primer mix 68 and 78 may have tendencies of unspecific amplifications.

<sup>10</sup>Primer mix 83 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>11</sup>Due to sharing of sequence motifs in codon 38, DRB3\*01:14 will also be amplified in primer mixes 69, 70 and 81 in addition to primer mix 85.

<sup>12</sup>The DRB4\*01:03:01:02N allele is amplified by primer mix 86, whereas the DRB4\*02:01N and DRB4\*03:01N null alleles are not amplified by this primer mix.

‘w’, might be weakly amplified.

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Lot-specific information  
**SPECIFICITY TABLE**

**DQ low resolution SSP typing**

Specificities and sizes of the PCR products of the 8 primer mixes used for  
 DQ low resolution SSP typing

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	DQ serology <sup>3</sup>	Amplified DQB1 alleles <sup>4</sup>
<b>88</b>	225 bp	<b>515 bp</b>	5	*05:01:01:01-05:26
<b>89<sup>5</sup></b>	220 bp, 275 bp	<b>515 bp</b>	1, 5, 6	*06:01:01-06:84
<b>90</b>	210 bp	430 bp	2	*02:01:01-02:29
<b>91<sup>6</sup></b>	220 bp	<b>515 bp</b>	3, 7	*03:01:01:01-03:01:16, 03:04, 03:09-03:10, 03:13-03:14:02, 03:16, 03:19, 03:21-03:22, 03:24, 03:27-03:29, 03:35-03:36, 03:42, 03:44, 03:46-03:60, 03:69, 03:71
<b>92<sup>6</sup></b>	130 bp	<b>515 bp</b>	6, 8	*03:02:01-03:02:07, 03:05:01-03:05:04, 03:07-03:08, 03:11, 03:18, 03:32, 03:37, 03:45, 03:61, 03:63-03:64, 03:66N-03:68, 03:70, 06:29
<b>93<sup>6,7</sup></b>	135 bp	<b>515 bp</b>	2, 3, 9	*02:03, 03:03:02:01-03:03:06, 03:06, 03:12, 03:15, 03:20, 03:25-03:26, 03:30-03:31, 03:33-03:34, 03:38-03:41, 03:43, 03:65, 04:03:01-04:03:02, 06:51, 06:66
<b>94<sup>7,8</sup></b>	85 bp, 185 bp	<b>515 bp</b>	3, 7, 8, 9	*03:01:01:01-03:72
<b>95<sup>6</sup></b>	160 bp	430 bp	4	*04:01:01-04:09, 04:11-04:12
<b>96<sup>9</sup></b>				<b>Negative control</b>

<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 DQ low resolution SSP typings.

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

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

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

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

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

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

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The two different control primer pairs give rise to either an internal positive control band of 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.

Well number 88 contains the primer pair giving rise to the longer, 515 bp, internal positive control band. In addition, wells number 89 and 91 to 94 contain 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 the DQB1\*05:05-05:26, DQB1\*06:06 to 06:07 alleles, the DQB1\*06:10, 06:13, 06:15-06:24 and 06:27 to 06:84, the DQB1\*02:04-02:29, the DQB1\*03:07-03:09 and 03:11-03:72 alleles and the DQB1:04:0301-04:12 alleles is not known. In this table we have used the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170, and also inferred the serological grouping from the naming of the sequence-defined allele.

<sup>4</sup>For several DQB1 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 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>Primer mix 89 has a tendency to giving rise to primer oligomer formation.

<sup>6</sup>Primer mixes 91, 92, 93 and 95 may give rise to a lower yield of HLA-specific PCR product than the other DQ low resolution primer mixes.

<sup>7</sup>Primer mixes 93 and 94 may have tendencies of unspecific amplifications.

<sup>8</sup>The primer pair in well 94 will in some samples give rise to two HLA-specific PCR fragments and may give rise to a lower yield of HLA-specific PCR product than the other DQ low primer mixes.

<sup>9</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.

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INTERPRETATION TABLE																						
HLA-A low resolution SSP typing																						
Amplification patterns of the A*01:01 to A*80:03 alleles																						
		Well <sup>12</sup>																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Length of spec. PCR product(s)		120	175	205	190	135	175	165	75	80	80	125	175	80	90	240	140	200	340	210	65	75
		145	215	235		200	205	200		240	175	190	225	115	135	380	180	390	375	240	240	160
		225	255									500			200	205					375	240
			365												240							495
Length of int. pos. control <sup>1</sup>		800	800	1070	800	800	1070	800	800	800	1070	800	1070	1070	1070	1070	1070	1070	800	800	800	800
		98	48	363	98	176	98	98	261	98	301	103	98	98	203	41	180	41	302	78	28	176
		5'-CTT 3'	5'-gCT 3'	5'-ATA 3'	5'-CTA 3'	5'-gCA 3'	5'-CTC 3'	5'-CTA 3'	5'-AAC 3'	5'-CTA 3'	5'-Cgg 3'	5'-CCT 3'	5'-CTT 3'	5'-CAC 3'	5'-gAA 3'	5'-CTT 3'	5'-TTT 3'	5'-CTT 3'	5'-gga 3'	5'-TCT 3'	5'-TCg 3'	5'-gCA 3'
		103	78		413	368	368	102	266	261	302	415	423	219	362	355	203	98	341	106	261	261
5'-primer(s) <sup>2</sup>		123	106					413			385	423		238	363		418			2 <sup>2</sup>	502	341
		5'-AgT 3'	5'-CCA 3'					5'-CCg 3'			5'-ggC 3'	5'-gCT 3'		5'-AgA 3'	5'-ATA 3'		5'-AgC 3'			5'-CCT 3'	5'-CCC 3'	5'-ggA 3'
		363												355	363					5'-CCT 3'	5'-CCC 3'	5'-ggA 3'
		5'-ATA 3'												5'-CCg 3'	5'-ATA 3'					5'-CCT 3'	5'-CCC 3'	5'-ggA 3'
3'-primer(s) <sup>3</sup>		203	240	527	256	270	259	259	302	299	341	257	282	180	299	238	290	256	397	265	97	292
		5'-TCT 3'	5'-ggA 3'	5'-CCA 3'	5'-CTg 3'	5'-ACA 3'	5'-gTT 3'	5'-gTT 3'	5'-ggC 3'	5'-TCg 3'	5'-CgT 3'	5'-gCA 3'	5'-gAC 3'	5'-TCA 3'	5'-CCA 3'	5'-CCT 3'	5'-CAA 3'	5'-CCC 3'	5'-gag 3'	5'-CCC 3'	5'-ggT 3'	5'-gTg 3'
		545	292	527	559	521	502	259			521	506	282	257	411	238	317	256		282	355	292
		5'-AgA 3'	5'-gTg 3'	5'-CCT 3'	5'-CCg 3'	5'-ggg 3'	5'-CTT 3'	5'-gTT 3'			5'-ggg 3'	5'-TgT 3'	5'-gAC 3'	5'-gCA 3'	5'-TCA 3'	5'-CCT 3'	5'-ggA 3'	5'-CTC 3'		5'-gAC 3'	5'-gAC 3'	5'-gTT 3'
Well No.				527		534	539	538				559	559	418	526	243	555	259		282	524	299
				5'-CCT 3'		5'-CgT 3'	5'-TCT 3'	5'-CCA 3'				5'-CTC 3'	5'-CCC 3'	5'-gTC 3'	5'-CCA 3'	5'-TCA 3'	5'-CCA 3'	5'-gTT 3'		5'-gAC 3'	5'-CAT 3'	5'-TCT 3'
				555								559	559	555		265				502		555
				5'-CCA 3'								5'-CgT 3'	5'-CCg 3'	5'-CCA 3'		5'-CCC 3'				5'-CCT 3'		5'-CCA 3'



101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

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
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- 01:01:55, 01:02-01:04N, 01:06-01:07, 01:09-01:11N, 01:16N-01:18N, 01:20, 01:22N-01:27N, 01:29, 01:31N-01:33, 01:35-01:42, 01:44-01:50, 01:52N-01:78, 01:80-01:94, 01:96-01:98, 01:100-01:120, 01:122- 01:125, 01:127-01:130, 36:04 <sup>6</sup>	A1, A36, Null, -	1			4																	
*01:01:23, 01:01:48, 01:08, 01:14-01:15N, 01:30, 01:79, 01:99, 36:01, 36:03, 36:05 <sup>6</sup>	A1, A36, Null, -	1																				
*01:01:56	-	1			4								w									
*01:12, 01:19	A1, -	1		3																		
*01:13	A1	1		4							10	12		14								
*01:21, 01:126	A1, -	1		3	4																	
*01:28	-	1		4							10			14								
*01:43	-	1		4						9												
*01:51	-	1		4				7		9												
*01:95	-	1		4													16					
*01:121	-	1		4															18			
*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21- 02:01:81, 02:01:83-02:16, 02:17:03-02:22:02, 02:24:01- 02:33, 02:36-02:45, 02:47, 02:49-02:54, 02:57-02:61, 02:63-02:64, 02:66-02:69, 02:71-02:77, 02:79:01- 02:97:02, 02:99, 02:101:01- 02:102, 02:104-02:128, 02:130-02:134, 02:136- 02:148, 02:150-02:168, 02:170-02:236, 02:238- 02:242, 02:244-02:308, 02:310-02:337, 02:339- 02:406, 02:408-02:414, 02:416-02:417	A2, Low A2, A203/A 2, A210/A 2, A2/blan k, Null, -		2																			
*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										12							19		
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

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	
HLA-A allele <sup>4</sup>	ser <sup>5</sup>																						
*02:35:02	A2												12								19		
*02:46, 02:70	A2		2																		19		
*02:48, 02:129	A2, -																				19		
*02:55	A2/A28		2					7														20	21
*02:65, 02:407	A2/A19, -		2																	18			
*02:78	-		w		4																19		
*02:135	-		2										12										
*02:149	-		2																			20	
*02:169	-		2		4																		
*02:237	-		2											13		15							
*02:243	-		2															17				20	
*02:309	-		2									11		13								20	
*02:338	-		2	3																			
*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, 03:25-03:31, 03:33-03:35, 03:37-03:40, 03:42, 03:44- 03:49, 03:51-03:56, 03:58, 03:60-03:62, 03:64-03:71, 03:73-03:74, 03:76-03:81, 03:83-03:87, 03:90-03:94, 03:96-03:106, 03:109- 03:110, 03:112-03:134, 03:136-03:141, 03:143- 03:151, 03:153-03:166	A3, A3/blank, Null, -				3								12										
*03:01:19	-			3								11	12										
*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, 03:152, 24:92 <sup>7</sup>	A3, Null, -			3																			
*03:12	A3			3	4																		
*03:18, 03:135	-	1			4								12										
*03:24, 03:50	A3, -			3				7					12										
*03:41	-			3																			21
*03:43, 03:82	-			3									12		14		16						
*03:63	-			3								10	12										21
*03:75	-												12										21
*03:88, 11:130 <sup>8</sup>	-			3	4							10											21
*03:95	-												12	13		15							
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

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	
HLA-A allele <sup>4</sup>	ser <sup>5</sup>																						
*11:01:01-11:09, 11:12-11:16, 11:18-11:24:02, 11:26-11:27, 11:29-11:39, 11:41-11:52Q, 11:54-11:59, 11:61-11:93, 11:95-11:111, 11:114-11:129, 11:131-11:138, 11:141-11:142	A11, Null, -				4						10												
*11:10	A11				4			7			10												
*11:11	-				4						10	11											
*11:17, 11:40	-				4					9	10												
*11:25, 11:60	A11, -			3	4						10												
*11:94, 11:112	-	1			4						10												
*11:113	-				4						10				14								
*11:139	-				4		6				10												
*23:01:01-23:13, 23:15-23:56, 23:58, <i>B*18:27</i> <sup>9</sup>	A23, Null, -					5																	
*23:14:01-23:14:02, 24:24, 24:71 <sup>10</sup>	A23, A9, A24, -					5	6																
*23:57	-																					20	
*24:02:01:01-24:11N, 24:13:01-24:13:02, 24:17, 24:20-24:23, 24:25-24:43, 24:45N-24:50, 24:54-24:56, 24:58-24:63, 24:66-24:70, 24:72-24:81, 24:83N-24:91, 24:93, 24:95-24:113, 24:115-24:137, 24:139-24:187, 24:189-24:203, 24:205-24:210, 24:212, 24:214-24:221, 24:223-24:227, 24:229-24:232N	A24, Low A24, A2403/A24, A9, A24/A9, Null, -						6																
*24:18, 24:204, 24:213	A24/A3, -						6																21
*24:19, 24:44	A9						6				10												
*24:82	-						6															20	
*25:01:01-25:04, 25:07-25:16, 25:18-25:22	A25, Null, -							7	8				12										
*25:05	A25							7	8			11	12								19		
*25:06	A25							7	8			11											
*25:17	-								8				12										
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: 70S

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
HLA-A allele <sup>4</sup>	ser <sup>5</sup>																					
*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, 26:65-26:71N, 26:74- 26:77, 26:79-26:85	A26, A10, Null, -							7		9			12									
*26:01:21, 26:04, 26:34, 26:73	A26, -							7		9												
*26:02, 26:29, 26:49	A26, -							7		9			w									
*26:03:01-26:03:02, 26:06, 26:21	A26, -							7			10		12									21
*26:05, 26:30	A26							7					12									21
*26:07:01-26:07:02, 26:64	A26, -									9			12									
*26:09	A26							7		9		11										
*26:16	A26						6			9			12									
*26:19	-			4						9			12	13								
*26:22	A26							7		9			12	13							20	
*26:54	-							7		9		11	12							19		
*26:72	-			4						9			12									
*26:78	-							7			10											21
*29:01:01:01-29:06, 29:08N- 29:12, 29:15-29:27, 29:29- 29:38, 29:40-29:47, 29:50- 29:53	A29, Null, -													13								
*29:07, 29:49	A29, -					5								13								
*29:13, 29:39	-													13		16						
*29:14	-													13	15							
*29:28	-							7						13								
*29:48	-													13				17				
*30:01:01-30:04:02, 30:06- 30:07, 30:09-30:20, 30:22- 30:54, 30:56-30:74	A30, Null, -														14							
*30:08	A30			4											14							
*30:55	-											12		14								
*31:01:02-31:02, 31:05- 31:28, 31:30-31:34, 31:36- 31:40, 31:42-31:74, 33:53 <sup>11</sup>	A31, A31/A2 4, Null, -															15						
*31:03-31:04	A31											11		13	15							
*31:29	-					5									15							
*31:35	-													14	15	16						
*31:41	-														15						20	
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: 70S

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
HLA-A allele <sup>4</sup>	ser <sup>5</sup>																					
*32:01:01-32:01:13, 32:01:15-32:02, 32:07- 32:14, 32:16-32:37, 32:39- 32:41, 32:43-32:57	A32, Null, -								8								16					
*32:01:14, 32:03, 32:38, 74:07 <sup>13</sup>	A32, A74, -																16					
*32:04	A32/A3			3					8													
*32:05	A32															15	16					
*32:06	A32								8								16				20	
*32:15	A32							7	8								16	17				
*32:42	-								8					13			16					
*33:01:01-33:01:07, 33:03:01-33:12, 33:14- 33:18:02, 33:20-33:21, 33:23, 33:25-33:37, 33:39- 33:47, 33:49-33:50, 33:52, 33:54-33:68	A33, -																	17				
*33:13, 33:48	-									9								17				
*33:19	-						6											17				
*33:22	-																	17			20	
*33:24	-																	17				21
*33:51	-							7										17				
*34:01:01-34:01:02, 34:05- 34:06, 34:11	A34, A10, -							7			10	11										
*34:02:01-34:03, 34:07, 34:10N	A34, Null, -			3				7			10	11										
*34:04	A34			3				7			10	11		13								
*34:08	A34			3				7			10	11	12									
*34:09	-			3				7				11										
*36:02	A36	1		3																		21
*43:01	A43									9		11	12									
*66:01, 66:04-66:05, 66:07- 66:08, 66:11, 66:13-66:14, 66:17-66:19	A66, A26, -							7			10		12									
*66:02-66:03, 66:16	A66, A10, -							7				11										
*66:06	A66							7			10		12									20
*66:09	-							7			10		12	13								20
*66:10	-							7			10		w									
*66:12, 66:15	-							7					12									
*68:01:01:01-68:04, 68:06- 68:12, 68:13:02-68:14, 68:16- 68:19, 68:21:01-68:24, 68:26- 68:28, 68:30-68:44, 68:46- 68:65, 68:67-68:70, 68:72- 68:83, 68:85-68:100	A68, A28, Null, -							7													19	
*68:05, 68:15, 68:20	A68							7													19	21
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

101.708-24 – including *Taq* polymerase, IFU-01  
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Lot No.: **70S**

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	
HLA-A allele <sup>4</sup>	ser <sup>5</sup>																						
*68:13:01, 68:66	A68, -				4			7												19			
*68:25	A68							7											18	19			
*68:29	A68							7										17		19	20		
*68:45	-						6	7												19			
*68:71	-							7					12							19			
*68:84	-							7		9										19			
*69:01	A69							7														20	
*74:01-74:03, 74:05-74:06, 74:08-74:12N, 74:14N-74:17	A74, Null, -																			18			
*74:04	A74																	17	18				
*74:13	-												12							18			
*80:01:01:01-80:01:01:02, 80:03	A80, -					5																	21
*80:02	-					5							10										
<i>B*07:81, B*08:52, B*18:67, B*38:41, B*53:05, B*53:16</i>	B53, -								8														
<i>C*03:174, C*08:69, C*16:56</i>	-				4																		
HLA-A allele <sup>4</sup>	ser <sup>5</sup>																						
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	

<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, 7, 8, 9, 11, 13 and 18 to 21 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 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 shown to be identical 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.

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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.

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. The grouping of not serologically defined alleles is taken from Tissue Antigens 73, 95-170, 2009.

<sup>6</sup>The A\*36 alleles will give rise to identical amplification patterns as a number of A\*01 alleles. These alleles can be separated by the A\*01 and A\*36 high resolution SSP primer sets.

<sup>7</sup>The A\*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 and 03:152 and the A\*24:92 alleles will give rise to identical amplification patterns. These alleles can be separated by the respective high resolution SSP primer sets.

<sup>8</sup>The A\*03:88 and the A\*11:130 alleles will give rise to identical amplification patterns. These alleles can be separated by the respective high resolution SSP primer sets.

<sup>9</sup>The A\*23:01:01-23:13, 23:15-23:56 and A\* 23:58 and the B\*18:27 alleles will give rise to identical amplification patterns. These alleles can be separated by the respective high resolution SSP primer sets.

<sup>10</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.

<sup>11</sup>The A\*31:01:02-31:02, 31:05-31:28, 31:30-31:34, 31:36-31:40 and 31:42-31:74, and the A\*33:53 alleles will give rise to identical amplification patterns. These alleles can be separated by the respective high resolution SSP primer sets

<sup>12</sup>The primer pairs in vials 1, 2, 10 and 14 will in many samples give rise to two or three HLA-specific PCR fragments.

<sup>13</sup>The A\*32:01:14, 32:03, 32:38 and the A\*74:07 alleles will give rise to identical amplification patterns. These alleles can be separated by the respective high resolution SSP primer sets.

‘w’, may be weakly amplified.

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: 70S

Lot-specific information

		INTERPRETATION TABLE																			
		HLA-B low resolution SSP																			
		Amplification patterns of the B*07:02 to B*83:01 alleles																			
		Well																			
		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Length of spec. PCR product(s)		285	215	140	130	185	180	290	165	165	180	105	195	105	115	80	150	140	60	210	170
Length of int. pos. control <sup>1</sup>		800	1070	1070	800	800	800	1070	1070	1070	800	1070	1070	1070	1070	1070	800	1070	1070	800	800
5'-primer(s) <sup>2</sup>		355 5'-TCA <sup>3'</sup>	97 5'-TCg <sup>3'</sup>	209 5'-ggC <sup>3'</sup>	103 5'-CCg <sup>3'</sup>	103 5'-CCT <sup>3'</sup>	103 5'-CCg <sup>3'</sup>	45 5'-ggA <sup>3'</sup>	45 5'-ggA <sup>3'</sup>	45 5'-ggA <sup>3'</sup>	420 5'-TTA <sup>3'</sup>	206 5'-AgA <sup>3'</sup>	142 5'-TCT <sup>3'</sup>	45 5'-ggA <sup>3'</sup>	161 5'-Cgg <sup>3'</sup>	167 5'-gCT <sup>3'</sup>	355 5'-TCA <sup>3'</sup>	206 5'-gAC <sup>3'</sup>	45 5'-ggA <sup>3'</sup>	142 5'-TCT <sup>3'</sup>	409 5'-ggC <sup>3'</sup>
		363 5'-AgC <sup>3'</sup>		363 5'-AgC <sup>3'</sup>	103 5'-CCg <sup>3'</sup>	103 5'-CCT <sup>3'</sup>	418 5'-Agg <sup>3'</sup>		357 5'-Tgg <sup>3'</sup>	435 5'-AAA <sup>3'</sup>		420 5'-TTA <sup>3'</sup>	419 5'-gTC <sup>3'</sup>	540 5'-gAC <sup>3'</sup>					368 5'-gTT <sup>3'</sup>	368 5'-gTC <sup>3'</sup>	420 5'-TTA <sup>3'</sup>
				363 5'-AgC <sup>3'</sup>	361 5'-AgT <sup>3'</sup>	363 5'-AAT <sup>3'</sup>			412 5'-ATA <sup>3'</sup>										557 5'-ggA <sup>3'</sup>		
3'-primer(s) <sup>3</sup>		603 5'-gTg <sup>3'</sup>	272 5'-Tgg <sup>3'</sup>	309 5'-gTg <sup>3'</sup>	193 5'-CgT <sup>3'</sup>	246 5'-TAT <sup>3'</sup>	246 5'-TAT <sup>3'</sup>	165 5'-Tgg <sup>3'</sup>	206 5'-CCT <sup>3'</sup>	266 5'-TCC <sup>3'</sup>	559 5'-CTC <sup>3'</sup>	272 5'-Tgg <sup>3'</sup>	301 5'-gTC <sup>3'</sup>	272 5'-TgC <sup>3'</sup>	234 5'-TCT <sup>3'</sup>	204 5'-TCT <sup>3'</sup>	463 5'-gCT <sup>3'</sup>	302 5'-ggC <sup>3'</sup>	259 5'-gTT <sup>3'</sup>	311 5'-ggg <sup>3'</sup>	544 5'-ggT <sup>3'</sup>
		605 5'-gCT <sup>3'</sup>	272 5'-TgA <sup>3'</sup>	312 5'-gCC <sup>3'</sup>	193 5'-CgT <sup>3'</sup>	246 5'-TAT <sup>3'</sup>	572 5'-gCC <sup>3'</sup>		538 5'-gTC <sup>3'</sup>	559 5'-Cag <sup>3'</sup>		572 5'-gCg <sup>3'</sup>	301 5'-gTC <sup>3'</sup>	309 5'-ATC <sup>3'</sup>	272 5'-TgA <sup>3'</sup>			312 5'-AgT <sup>3'</sup>	259 5'-gTT <sup>3'</sup>	311 5'-ggg <sup>3'</sup>	
				559 5'-Cag <sup>3'</sup>	583 5'-gTg <sup>3'</sup>	559 5'-CTC <sup>3'</sup>			603 5'-gTg <sup>3'</sup>	583 5'-gTg <sup>3'</sup>			570 5'-CCg <sup>3'</sup>	605 5'-gCT <sup>3'</sup>	272 5'-Tgg <sup>3'</sup>				266 5'-TCC <sup>3'</sup>	538 5'-gTC <sup>3'</sup>	
													572 5'-gCg <sup>3'</sup>						272 5'-Tgg <sup>3'</sup>	292 5'-gTA <sup>3'</sup>	
																			572 5'-gCg <sup>3'</sup>		
Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

INTERPRETATION TABLE																																																																
HLA-B low resolution SSP																																																																
Amplification patterns of the B*07:02 to B*83:01 alleles																																																																
Well																																																																
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64																																										
110	395	160	180	105	325	80	115	90	90	145	120	430	145	300	160	180	180	90	95	115	360	350	Length of spec. PCR product(s)																																									
1070	1070	1070	1070	1070	800	1070	800	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	Length of int. pos. control <sup>1</sup>																																									
246	44	44	355	540	1 <sup>st</sup> I	355	209	41	209	48	357	49	206	1 <sup>st</sup> I	15	141	420	209	206	165	1 <sup>st</sup> I	1 <sup>st</sup> I	5'-primer(s) <sup>2</sup>																																									
5'-gAA <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-CAG <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-CTg <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-gCC <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-CAG <sup>3'</sup>	5'-gAA <sup>3'</sup>	5'-CAG <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-ATT <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-ACC <sup>3'</sup>	5'-CAG <sup>3'</sup>	5'-CAG <sup>3'</sup>																																										
		357	363			418	209	368	363	206					418	420		209		463																																												
		5'-Tgg <sup>3'</sup>	5'-Agg <sup>3'</sup>			5'-Agg <sup>3'</sup>	5'-ggg <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-AgC <sup>3'</sup>	5'-gAA <sup>3'</sup>					5'-Agg <sup>3'</sup>	5'-TTA <sup>3'</sup>		5'-ggA <sup>3'</sup>		5'-TgA <sup>3'</sup>																																												
						499	355											362																																														
						5'-TCT <sup>3'</sup>	5'-TCA <sup>3'</sup>											5'-ggT <sup>3'</sup>																																														
317	272	302	499	603	282	538	299	282	259	309	435	309	311	259	175	311	559	256	259	272	317	311	3'-primer(s) <sup>3</sup>																																									
5'-ggA <sup>3'</sup>	5'-TgC <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-gtg <sup>3'</sup>	5'-gCC <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-gCC <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-ATC <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-ATC <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-CCg <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-CAG <sup>3'</sup>	5'-CCC <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-TgC <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-ggT <sup>3'</sup>																																										
		302		605		572	583	418	499		527			259	538	559		259		538																																												
		5'-ggT <sup>3'</sup>		5'-gCT <sup>3'</sup>		5'-gCg <sup>3'</sup>	5'-gtg <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-ggA <sup>3'</sup>		5'-CCT <sup>3'</sup>			5'-CTC <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-CgT <sup>3'</sup>		5'-CTT <sup>3'</sup>		5'-CCA <sup>3'</sup>																																												
		477												262				263																																														
		5'-gCg <sup>3'</sup>												5'-TgC <sup>3'</sup>				5'-gTT <sup>3'</sup>																																														
																		559																																														
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	Well No.																																									

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
HLA-B allele <sup>4</sup>	ser. <sup>17</sup>																					
*07:02:01-07:02:31, 07:02:33-07:02:38, 07:05:01-07:06, 07:09-07:15, 07:17-07:18:02, 07:21-07:23, 07:26, 07:29-07:31, 07:34-07:35, 07:39, 07:41-07:46, 07:48-07:49N, 07:51-07:52, 07:55-07:59, 07:61-07:64, 07:66-07:68:03, 07:70-07:72, 07:74-07:76, 07:79-07:80, 07:82-07:83, 07:86-07:99, 07:101-07:121, 07:124-07:130, 07:132, 07:135N-07:138, 07:140-07:145, 07:147-07:148, 07:150-07:164, 07:166-07:173, 07:175-07:178, 07:181N-07:190	B7, B42, Null, blank, -	22																				
*07:02:32	-	22				26																
*07:03, 07:08, 07:16, 07:32, 07:37	B703, B7, blank	22																				
*07:04, 07:25, 07:146	B7, -	22												34								
*07:07, 07:19, 07:33:01, 07:40, 07:53, 07:77, 07:122, 07:139, 07:165	B7, 42, -																					
*07:20, 07:24, 07:131	B7, blank, -	22		24																		
*07:27	-	22										32									40	
*07:28	B7	22					27															
*07:36, 07:81, 07:149	B7, -	22																				
*07:38	-	22																				
*07:47	B7	22																				
*07:50	-	22										32										
*07:54, 07:123	B7, -	22																				
*07:60	-			24																		
*07:65	-	22																			38	
*07:69, 07:85	-	22																				
*07:73	-	22														36						
*07:78	-																					
*07:84	-											31										
*07:100	-			24																		
*07:133	-	22																				
*07:134	-	22																			38	
*07:174, 81:02 <sup>5</sup>	B81, -	22																				
*07:179	-	22																				
*07:180	-	22																				
*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, 08:33-08:35, 08:39, 08:41-08:48, 08:51, 08:53:01-08:53:02, 08:56:01-08:59:02, 08:61, 08:63-08:64, 08:66-08:69, 08:71-08:73, 08:75, 08:80-08:83, 08:86N, 08:90-08:93, 08:95-08:100, 08:104-08:106	B8, Null, -	22	23						29													
*08:02-08:03, 08:52, 08:78	B8, -	22	23						29													
Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	

101.708-24 – including *Taq* polymerase, IFU-01  
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42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	ser. <sup>17</sup>	Well No. HLA-B allele <sup>4</sup>
		44			47																	64	B7, B42, Null, blank, -	*07:02:01-07:02:31, 07:02:33-07:02:38, 07:05:01-07:06, 07:09-07:15, 07:17-07:18:02, 07:21-07:23, 07:26, 07:29-07:31, 07:34-07:35, 07:39, 07:41-07:46, 07:48-07:49N, 07:51-07:52, 07:55-07:59, 07:61-07:64, 07:66-07:68:03, 07:70-07:72, 07:74-07:76, 07:79-07:80, 07:82-07:83, 07:86-07:99, 07:101-07:121, 07:124-07:130, 07:132, 07:135N-07:138, 07:140-07:145, 07:147-07:148, 07:150-07:164, 07:166-07:173, 07:175-07:178, 07:181N-07:190
		44			47																	64	-	*07:02:32
		44																				64	B703, B7, blank	*07:03, 07:08, 07:16, 07:32, 07:37
		44		46	47																	64	B7, -	*07:04, 07:25, 07:146
		44			47																	64	B7, 42, -	*07:07, 07:19, 07:33:01, 07:40, 07:53, 07:77, 07:122, 07:139, 07:165
		44			47																	64	B7, blank, -	*07:20, 07:24, 07:131
																						63	-	*07:27
		44			47																	64	B7	*07:28
					47																	63	B7, -	*07:36, 07:81, 07:149
																						63	-	*07:38
		44			w																	64	B7	*07:47
		44																				64	-	*07:50
		44			47									56								64	B7, -	*07:54, 07:123
		44			47																	64	-	*07:60
					47			50								58			w			64	-	*07:65
	43	44																				64	-	*07:69, 07:85
		44			47																	64	-	*07:73
		44			47						53											64	-	*07:78
		44			47						53											64	-	*07:84
		44			47																62	64	-	*07:100
		44			47								55									64	-	*07:133
		44			47														w			64	-	*07:134
		44			47			51														64	B81, -	*07:174, 81:02 <sup>5</sup>
					47																	64	-	*07:179
	43																					63	-	*07:180
		44			46																	64	B8, Null, -	*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, 08:33-08:35, 08:39, 08:41-08:48, 08:51, 08:53:01-08:53:02, 08:56:01-08:59:02, 08:61, 08:63-08:64, 08:66-08:69, 08:71-08:73, 08:75, 08:80-08:83, 08:86N, 08:90-08:93, 08:95-08:100, 08:104-08:106
				46																		63	B8, -	*08:02-08:03, 08:52, 08:78
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.

101.708-24 – including *Taq* polymerase, IFU-01  
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Lot-specific information

Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
<b>HLA-B allele<sup>4</sup></b>	<b>ser.<sup>17</sup></b>																					
*08:04	B8, blank	22	23						29			32										
*08:07, 08:14, 08:28, 08:37, 08:74, 08:77, 08:108	B8, -	22	23																			
*08:09, 08:12:01-08:12:03, 08:16, 08:84	B8, -		23						29													
*08:13, 08:20, 08:40, 08:70	B8, -	22	23						29													
*08:17, 08:54	-	22	23						29			32										
*08:21	B8	22	23	24					29													
*08:25	B8	22	23	24					29													
*08:26, 08:50, 08:62, 08:85, 08:94, 42:07 <sup>6</sup>	B8, -	22							29													
*08:32	B8	22	23						29										38			
*08:36	-	22	23						29													
*08:38, 08:101	-	22	23						29													
*08:49	-	22	23															37			40	
*08:55	-	22	23						29													41
*08:60, 08:76	-	22	23						29													
*08:65	-	22							29													
*08:79	-	22	23																			
*08:87	-	22	23				27															
*08:88, 08:102	-	22	23						29								36					
*08:89, 08:107	-		23																			
*08:103	-		23						29													
*13:01:01-13:01:06, 13:17, 13:20, 13:22:01-13:23, 13:25, 13:28-13:29, 13:43, 13:50, 13:52, 13:57, 13:60-13:61, 13:63N	B13, Null, -			24	25							31						37				
*13:02:01-13:02:15, 13:08, 13:11, 13:15, 13:18-13:19, 13:27, 13:30, 13:32-13:34, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:47, 13:49N, 13:54-13:56N, 13:64-13:66	B13, Null, -			24	25							31										
*13:03	B49, B15			24	25																	
*13:04, 13:10, 13:21, 13:35, 13:59, 44:135, 44:158 <sup>7</sup>	B49, B15, B13, -			24	25																	
*13:06	B13			24	25														37			
*13:07N	Null			24	25							31							37			
*13:09, 13:67	-			25								31										
*13:12:01-13:13, 13:26, 13:51	B13, -			24	25														37			
*13:14	B13			24								31										
*13:16	B13			24	25							31										
*13:31	-			24	25							31										
*13:36	-			24	25							31							37			
*13:39	-			25								31							37			
*13:41	-			24	25							31										
*13:46	-			24	25				29													
*13:48	-			24	25																	
*13:53	-			24	25																	
*13:58	-											31										
*13:62	-			24	25							30										
*14:01:01-14:01:03, 14:07N, 14:12, 14:14, 14:19, 14:26, 14:32	B64, Null, -				25	26																
<b>Well No.</b>		<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot-specific information

																				Well No.				
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	ser. <sup>17</sup>	HLA-B allele <sup>4</sup>
		44		46																		64	B8, blank	*08:04
		44		46																		64	B8, -	*08:07, 08:14, 08:28, 08:37, 08:74, 08:77, 08:108
		44		46																		64	B8, -	*08:09, 08:12:01-08:12:03, 08:16, 08:84
		44																				64	B8, -	*08:13, 08:20, 08:40, 08:70
		44		46										56								64	-	*08:17, 08:54
		44		46																		64	B8	*08:21
		44																				64	B8	*08:25
		44		46																		64	B8, -	*08:26, 08:50, 08:62, 08:85, 08:94, 42:07 <sup>6</sup>
		44		46															61			64	B8	*08:32
				46																		64	-	*08:36
		44		46										56								64	-	*08:38, 08:101
		44		46		48																64	-	*08:49
		44																				64	-	*08:55
		44		46		48																64	-	*08:60, 08:76
43	44	44		46																		64	-	*08:65
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<b>HLA-B allele<sup>4</sup></b>	<b>ser.<sup>17</sup></b>																					
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 101.708-24u – without *Taq* polymerase, IFU-02

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																								Well No.			
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	ser. <sup>17</sup>	HLA-B allele <sup>4</sup>			
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<b>HLA-B allele<sup>4</sup></b>	<b>ser.<sup>17</sup></b>																				
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*18:66	-														35						
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42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	ser. <sup>17</sup>	HLA-B allele <sup>4</sup>
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														56						62	64	-	*15:68	
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														56		59				62	64	B62	*15:73	
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																			61	63		B18	*18:09	
													56								64	B18	*18:12	
																			61	62	64	B18	*18:19	
							49													61		64	B18, -	*18:22, 18:69
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<b>HLA-B allele<sup>4</sup></b>	<b>ser.<sup>17</sup></b>																					
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*27:12	-					26										36						
*27:14, 27:81	B27, -															36						
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<b>Well No.</b>		<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	

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																								ser. <sup>17</sup>	HLA-B allele <sup>4</sup>
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42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	Well No.		

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<b>HLA-B allele<sup>4</sup></b>	<b>ser.<sup>17</sup></b>																					
*35:01:01:01-35:01:09, 35:01:11-35:03:02, 35:03:04- 35:04:01, 35:04:03, 35:06- 35:08:04, 35:08:06, 35:11:01- 35:12:03, 35:15, 35:20:01- 35:20:02, 35:23, 35:29:01- 35:29:02, 35:33-35:34, 35:36, 35:39-35:42:01, 35:48, 35:50, 35:52, 35:54-35:55, 35:57, 35:59, 35:61:01-35:61:02, 35:65Q, 35:70, 35:74, 35:77- 35:78, 35:82-35:85, 35:90- 35:95, 35:98, 35:100- 35:101:02, 35:103-35:108:02, 35:110-35:112, 35:116, 35:120- 35:124, 35:126, 35:128- 35:134N, 35:136-35:150, 35:152-35:153, 35:155-35:156, 35:158-35:162, 35:165N- 35:168, 35:170-35:173N, 35:175-35:184, 35:187, 35:189, 35:192-35:197, 35:200- 35:202, 35:204, 35:206, 35:208-35:209, 35:211-35:212, 35:214-35:216N, 35:219- 35:221, 35:223-35:225, 35:227- 35:228	B35, Null, -																37	38				
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*35:35	B35																37	38			41	
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														56							64	B35	*35:16	
																			61		64	B35, -	*35:17, 35:30, 35:113, 35:125, 35:164	
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																					64	B35, -	*35:25, 35:49, 35:198, 35:210	
																					64	B35	*35:26	
																				61		64	B35	*35:35
							48													61		64	B35, -	*35:38, 35:115, 35:169
																58				61		64	-	*35:42:02
																				61	62	64	B35, -	*35:43:01-35:44, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135
							48													61		64	B35	*35:45, 35:71
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<b>HLA-B allele<sup>4</sup></b>	<b>ser.<sup>17</sup></b>																					
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*35:191	-																37	38				
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*35:222	-																37	38				
*35:229	-																37	38				
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*37:07	-	22											33								40	
*37:08	B37												33				37				40	
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*37:28	-												32	33			37				40	
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*38:22	-					26										36						41
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<b>Well No.</b>		<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	



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																				Well No.				
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					47			50							w							64	B35, 22	*35:76
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															58				61	62		64	-	*35:185
					47			50														64	-	*35:186
																						64	-	*35:191
														56								64	-	*35:207
																			61			64	-	*35:218
																			61			64	-	*35:222
					47			50											61			64	-	*35:229
						48								56							63		B37, Null, -	*37:01:01-37:01:07, 37:01:09, 37:03N, 37:06, 37:13, 37:15- 37:21, 37:23-37:27, 37:30N- 37:33N, 37:35-37:36
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	43	44																			64		B3901, B39, Low B39, B16, Null, -	*39:01:01:01-39:01:01:03, 39:01:03-39:01:08, 39:01:10- 39:01:14, 39:01:16, 39:03, 39:05:01-39:07, 39:09, 39:11, 39:14-39:15, 39:24:01, 39:26- 39:29, 39:31, 39:35, 39:37- 39:38Q, 39:40:01N-39:41, 39:44, 39:46, 39:48, 39:51- 39:57, 39:59-39:62, 39:64- 39:68, 39:70-39:71, 39:73, 39:75, 39:77, 39:79-39:81
	43	44																			64		B3901, B39, -	*39:01:09, 39:12, 39:45, 39:72, 39:76, 39:78
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.



101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
<b>HLA-B allele<sup>4</sup></b>	<b>ser.<sup>17</sup></b>																					
*39:01:15	-					26																41
*39:02:01, 39:08	B3902, B39					26						32										41
*39:02:02, 39:13:01-39:13:02, 39:23, 39:49	B3902, B39, -											32										41
*39:04	B39						27															41
*39:10:01-39:10:02, 39:16, 39:20	B39, -																					41
*39:17, 39:63	B39, -																					41
*39:18	B39					26																41
*39:19:01	B39																	38				41
*39:19:02	B39					26												38				41
*39:22	B39					26																41
*39:24:02	-					26																41
*39:36	-					26																41
*39:39:01	B39					26						32										41
*39:39:02	-											32										41
*39:42	B39					26											37					41
*39:58	-					26																41
*39:69	-					26																41
*40:01:01-40:01:06, 40:01:08-40:01:10, 40:01:12-40:01:17, 40:01:19-40:01:29, 40:07, 40:23, 40:51, 40:60, 40:66, 40:73, 40:79, 40:124:01, 40:139-40:140, 40:146-40:147, 40:150, 40:152-40:153, 40:155N, 40:172, 40:186	B60, B40, Null, -				25																	
*40:01:07, 40:01:18, 40:53, 40:72:01-40:72:02, 40:77	B60, B61, -				25																	
*40:01:11	-				25																	
*40:02:01-40:04, 40:06:05, 40:20, 40:39-40:40, 40:89, 40:94, 40:97, 40:122, 40:142N-40:144N, 40:214, 40:229	B61, B41, Null, -																					
*40:05	B4005, B50			24																		
*40:06:01:01-40:06:04, 40:06:06-40:06:07, 40:44, 40:70, 40:75, 40:83, 40:86, 40:103, 40:127, 40:131, 40:159, 40:162, 40:165, 40:167, 40:177, 40:190, 40:230	B61, -																					
*40:08	B61, blank																					
*40:09, 40:11:01-40:11:02, 40:18, 40:24, 40:27:01-40:27:02, 40:29, 40:35, 40:37, 40:50, 40:56-40:57, 40:64, 40:78, 40:82, 40:85, 40:90-40:91, 40:99, 40:104-40:105, 40:107, 40:111, 40:115, 40:119-40:120, 40:133Q, 40:145, 40:169, 40:173, 40:176, 40:180-40:181, 40:189, 40:200, 40:202-40:203, 40:205-40:206, 40:211, 40:220, 40:224-40:226	B61, -																					
<b>Well No.</b>		<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	



101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot-specific information

42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	ser. <sup>17</sup>	Well No.	
																								HLA-B allele <sup>4</sup>	
	43	44																					-	*39:01:15	
		44											56									64	B3902, B39	*39:02:01, 39:08	
		44											56									64	B3902, B39, -	*39:02:02, 39:13:01-39:13:02, 39:23, 39:49	
	43	44																					64	B39	*39:04
		44																					64	B39, -	*39:10:01-39:10:02, 39:16, 39:20
		44														58							64	B39, -	*39:17, 39:63
	43	44																			62	64	B39	*39:18	
	43	44																					64	B39	*39:19:01
	43	44																					64	B39	*39:19:02
	43	44												56									64	B39	*39:22
	43																						64	-	*39:24:02
	43	44																				62	64	-	*39:36
		44																					64	B39	*39:39:01
		44																					64	-	*39:39:02
	43	44																					64	B39	*39:42
		44																					64	-	*39:58
	43	44											55										64	-	*39:69
		44	45										55	56									64	B60, B40, Null, -	*40:01:01-40:01:06, 40:01:08-40:01:10, 40:01:12-40:01:17, 40:01:19-40:01:29, 40:07, 40:23, 40:51, 40:60, 40:66, 40:73, 40:79, 40:124:01, 40:139-40:140, 40:146-40:147, 40:150, 40:152-40:153, 40:155N, 40:172, 40:186
		44											55	56									64	B60, B61, -	*40:01:07, 40:01:18, 40:53, 40:72:01-40:72:02, 40:77
		44	45										55	56	58								64	-	*40:01:11
													55	56									64	B61, B41, Null, -	*40:02:01-40:04, 40:06:05, 40:20, 40:39-40:40, 40:89, 40:94, 40:97, 40:122, 40:142N, 40:144N, 40:214, 40:229
													55	56									64	B4005, B50	*40:05
		44											55	56									64	B61, -	*40:06:01:01-40:06:04, 40:06:06-40:06:07, 40:44, 40:70, 40:75, 40:83, 40:86, 40:103, 40:127, 40:131, 40:159, 40:162, 40:165, 40:167, 40:177, 40:190, 40:230
													55										64	B61, blank	*40:08
		?											55	56									64	B61, -	*40:09, 40:11:01-40:11:02, 40:18, 40:24, 40:27:01-40:27:02, 40:29, 40:35, 40:37, 40:50, 40:56-40:57, 40:64, 40:78, 40:82, 40:85, 40:90-40:91, 40:99, 40:104-40:105, 40:107, 40:111, 40:115, 40:119-40:120, 40:133Q, 40:145, 40:169, 40:173, 40:176, 40:180-40:181, 40:189, 40:200, 40:202-40:203, 40:205-40:206, 40:211, 40:220, 40:224-40:226



101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
<b>HLA-B allele<sup>4</sup></b>	<b>ser.<sup>17</sup></b>																					
*40:10:01-40:10:02, 40:135	B60, -				25																	
*40:12	B60, B48								29			32								39		
*40:13, 40:19	B61, -																					
*40:14:01-40:14:03, 40:121, 40:129, 40:158, 40:164, 40:192, 40:197, 40:219, 40:233, 40:237	B60, -				25																	
*40:15, 40:32	B40, -	22			25																	
*40:16	B61	22			25																	
*40:21	B40, B15																					
*40:22N, 40:33, 40:36, 40:38, 40:42-40:43, 40:49, 40:52, 40:54-40:55, 40:61-40:63, 40:65, 40:67, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:108, 40:112-40:114, 40:116, 40:118N, 40:123, 40:124:02-40:126, 40:128, 40:130, 40:134, 40:141, 40:151, 40:154, 40:156, 40:163, 40:168, 40:171, 40:175, 40:179, 40:182-40:183, 40:187, 40:191, 40:193-40:196, 40:198-40:199, 40:204, 40:207, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:234-40:236, 40:238	Null, B60, -				25																	
*40:25, 40:69, 40:106	B40, B60, -				25																	
*40:26	B21										30											
*40:28	-										30									37		
*40:30, 40:34, 40:160:01-40:160:02	B60, -	22			25																	
*40:31, 40:45, 40:80	B60, -	22			25																	
*40:46	B60											32				36						
*40:47, 40:188	B40, -				25																	
*40:48	B60				25						31											
*40:58	B40				25																	
*40:59	B40	22			25																	
*40:68, 40:232	-																					
*40:71	B61			24																		
*40:74, 40:149, 40:170, 40:210	B60, -																					
*40:76	B60				25																	
*40:93	-											32				36						
*40:95	-																					
*40:96	-																					
*40:98	-	22																				
*40:109	-																					
*40:110	-				25																	
*40:117	-				25																	
*40:132, 40:178	-				25																	
*40:136	-				25				29					34								
*40:137	-	22																				
*40:138	-																					
*40:148, 40:161	-																					
<b>Well No.</b>		<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	ser. <sup>17</sup>	Well No.	
																								HLA-B allele <sup>4</sup>	
			45										55	56								64	B60, -	*40:10:01-40:10:02, 40:135	
			45											56								64	B60, B48	*40:12	
										52		54	56									63	B61, -	*40:13, 40:19	
			?										55	56								64	B60, -	*40:14:01-40:14:03, 40:121, 40:129, 40:158, 40:164, 40:192, 40:197, 40:219, 40:233, 40:237	
			?										55	56								64	B40, -	*40:15, 40:32	
			44										55	56								64	B61	*40:16	
			?	45										56								64	B40, B15	*40:21	
			?	45									55	56								64	Null, B60, -	*40:22N, 40:33, 40:36, 40:38, 40:42-40:43, 40:49, 40:52, 40:54-40:55, 40:61-40:63, 40:65, 40:67, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100, 40:102, 40:108, 40:112-40:114, 40:116, 40:118N, 40:123, 40:124:02-40:126, 40:128, 40:130, 40:134, 40:141, 40:151, 40:154, 40:156, 40:163, 40:168, 40:171, 40:175, 40:179, 40:182-40:183, 40:187, 40:191, 40:193-40:196, 40:198, 40:199, 40:204, 40:207, 40:212-40:213, 40:215-40:218, 40:221-40:223, 40:227-40:228, 40:234-40:236, 40:238	
			?	45									55									64	B40, B60, -	*40:25, 40:69, 40:106	
			?										55	56								64	B21	*40:26	
			?				49						55	56								64	-	*40:28	
			?	45									55	56								64	B60, -	*40:30, 40:34, 40:160:01-40:160:02	
			?							51			55	56								64	B60, -	*40:31, 40:45, 40:80	
			?	45										56								64	B60	*40:46	
				45										56								63	B40, -	*40:47, 40:188	
			?	45									55	56								64	B60	*40:48	
			?										55	56		58						64	B40	*40:58	
			44	45									55	56								64	B40	*40:59	
			?										55									64	-	*40:68, 40:232	
			?										55	56		59						64	B61	*40:71	
			?	45									55	56								64	B60, -	*40:74, 40:149, 40:170, 40:210	
				45										56										B60	*40:76
			44											56								64	-	*40:93	
			?									53	55	56								64	-	*40:95	
			44											56								63	-	*40:96	
			?										55	56								64	-	*40:98	
			44							52		54	56									63	-	*40:109	
			44											56								63	-	*40:110	
				45						52		54	56									63	-	*40:117	
			?	45			48						55	56								64	-	*40:132, 40:178	
			?		46								55	56								64	-	*40:136	
			?	45										56								64	-	*40:137	
			44	45									55	56								64	-	*40:138	
			44								53		55	56								64	-	*40:148, 40:161	



101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
<b>HLA-B allele<sup>4</sup></b>	<b>ser.<sup>17</sup></b>																					
*40:157, 40:201	-																					
*40:166	-				25																	
*40:174	-			24																		
*40:184	-																					41
*40:185	-																	38				
*40:208	-				25																	
*40:209	-																	38				
*40:231	-				25				29					34								
*41:01, 41:03:01-41:03:02, 41:06-41:07, 41:12, 41:14- 41:17, 41:20-41:22, 41:25	B41, -				25				29													
*41:02:01-41:02:05, 41:11, 41:13, 41:19, 41:23-41:24, 41:27	B41, -	22			25				29													
*41:04, 41:10, 41:18	B41, -	22			25																	
*41:05	B41				25				29													
*41:08	B41				25				29					34								
*41:09, 45:02-45:03 <sup>10</sup>	B45, -				25				29													
*41:26	-				25				29													
*42:01:01-42:02, 42:06, 42:10, 42:12, 42:15, 42:17-42:18	B42, -	22							29													
*42:04, 42:14	B42, -								29													
*42:05:01-42:05:02	B42	22							29					34								
*42:08	B42								29													
*42:09, 42:16, 42:20	B42, -	22																				
*42:11	-	22							29			32										
*42:13	-	22							29													
*42:19	-	22							29													
*44:02:01:01-44:02:21, 44:02:23-44:02:29, 44:11, 44:19N, 44:21-44:24, 44:27:01- 44:27:02, 44:33-44:34:02, 44:48, 44:52N, 44:55, 44:59:01-44:59:02, 44:63, 44:66-44:68, 44:71-44:74, 44:80, 44:84, 44:86-44:87, 44:89, 44:93, 44:101-44:102, 44:104, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126:01-44:126:02, 44:137, 44:142, 44:148- 44:149N, 44:151-44:152, 44:162, 44:168, 44:170, 44:172-44:173	B44, Null, -				25												37					
*44:02:22, 44:12, 44:171N	B44, Null, -				25												37					
<b>Well No.</b>		<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot-specific information

42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	ser. <sup>17</sup>	Well No.
																								HLA-B allele <sup>4</sup>
														56								63	-	*40:157, 40:201
		?	45		47								55									64	-	*40:166
		?											55	56								64	-	*40:174
		?											55	56								64	-	*40:184
		?	45											56								64	-	*40:185
		?	45											56								64	-	*40:208
		?												56								64	-	*40:209
		?	45	46		48							55	56								64	-	*40:231
		44		46									55	56								64	B41, -	*41:01, 41:03:01-41:03:02, 41:06-41:07, 41:12, 41:14-41:17, 41:20-41:22, 41:25
		44		46									55	56								64	B41, -	*41:02:01-41:02:05, 41:11, 41:13, 41:19, 41:23-41:24, 41:27
		44		46									55	56								64	B41, -	*41:04, 41:10, 41:18
		44		46									?	56								64	B41	*41:05
		44		46									55	56								64	B41	*41:08
		44											55	56								64	B45, -	*41:09, 45:02-45:03 <sup>10</sup>
		44		46										56									-	*41:26
		44		46	47																	64	B42, -	*42:01:01-42:02, 42:06, 42:10, 42:12, 42:15, 42:17-42:18
		44		46	47																	64	B42, -	*42:04, 42:14
		44		46	47																	64	B42	*42:05:01-42:05:02
		44			47																	64	B42	*42:08
		44		46	47																	64	B42, -	*42:09, 42:16, 42:20
		44		46										56								64	-	*42:11
		44		46	47	48																64	-	*42:13
		44			47																	64	-	*42:19
						48								56	57							63	B44, Null, -	*44:02:01:01-44:02:21, 44:02:23-44:02:29, 44:11, 44:19N, 44:21-44:24, 44:27:01-44:27:02, 44:33-44:34:02, 44:48, 44:52N, 44:55, 44:59:01-44:59:02, 44:63, 44:66-44:68, 44:71-44:74, 44:80, 44:84, 44:86-44:87, 44:89, 44:93, 44:101-44:102, 44:104, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126:01-44:126:02, 44:137, 44:142, 44:148-44:149N, 44:151-44:152, 44:162, 44:168, 44:170, 44:172-44:173
						48									57							63	B44, Null, -	*44:02:22, 44:12, 44:171N
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
HLA-B allele <sup>4</sup>	ser. <sup>17</sup>																					
*44:03:01-44:03:06, 44:03:08-44:03:15, 44:03:18, 44:04-44:05:04, 44:13, 44:26, 44:28:01-44:30, 44:32, 44:35-44:36, 44:38-44:39, 44:42, 44:45, 44:51, 44:56N, 44:58N, 44:61N, 44:69-44:70, 44:76-44:79, 44:82, 44:85, 44:88, 44:92, 44:94, 44:96, 44:98, 44:105, 44:107-44:109, 44:114-44:115, 44:117, 44:120, 44:122-44:125, 44:128, 44:133, 44:136, 44:139, 44:141, 44:143, 44:147, 44:153-44:155, 44:157, 44:159-44:161, 44:163-44:165, 44:167, 44:174-44:175	B44, Null, -				25												37					
*44:03:07, 44:03:16, 44:03:19, 44:07, 44:81, 44:103, 44:111, 44:134	B44, -																37					
*44:03:17	-				25												37					
*44:06	B44																37					
*44:08	B44			w													37					
*44:09	B45				25												37					
*44:10	B44				25							32					37					
*44:14	B44				25				29								37					
*44:15	B12				25				29			32										
*44:16, 44:91, 44:132	B47, B44, -				25		27										37					
*44:17, 44:43:01-44:43:02, 44:144	B44, -				25								33				37					
*44:18	B44				25				29			32										
*44:20, 44:100	B44, -				25				29													
*44:25, 44:50	B44				25												37					
*44:31	B44				25																	
*44:37:01-44:37:02, 44:64:01-44:64:02	B44, -				25		27										37					
*44:40, 44:130	B44, -											32				36	37					
*44:41:01-44:41:02, 44:53, 44:99, 44:138Q	B44, -				25																	
*44:44	B44											32				36	37					
*44:46, 44:75, 44:129	B12, -				25												37					
*44:47, 44:65	B44, -				25																	
*44:49	B44		23		25												37					
*44:54	B44				24	25																
*44:57	-			w													37					
*44:60, 44:110	-				24	25											37					
*44:62	-				25				29	30							37					
*44:83, 44:145	-																37					
*44:90	-				25												37					
*44:95	-				25												37					
*44:97	-				25												37					
*44:106	-				24	25																
*44:127	-				25												37					
*44:131	-																37					
*44:140	-				25							32					37					
*44:146	-				25												37					
*44:150	-	22			25		27										37					
*44:156	-		23									32					37					
Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	



101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **70S**

Lot-specific information

42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	ser. <sup>17</sup>	Well No. HLA-B allele <sup>4</sup>
						48								56							63		B44, Null, -	*44:03:01-44:03:06, 44:03:08-44:03:15, 44:03:18, 44:04-44:05:04, 44:13, 44:26, 44:28:01-44:30, 44:32, 44:35-44:36, 44:38-44:39, 44:42, 44:45, 44:51, 44:56N, 44:58N, 44:61N, 44:69-44:70, 44:76-44:79, 44:82, 44:85, 44:88, 44:92, 44:94, 44:96, 44:98, 44:105, 44:107-44:109, 44:114, 44:115, 44:117, 44:120, 44:122-44:125, 44:128, 44:133, 44:136, 44:139, 44:141, 44:143, 44:147, 44:153-44:155, 44:157, 44:159, 44:161, 44:163-44:165, 44:167, 44:174-44:175
						48								56							63		B44, -	*44:03:07, 44:03:16, 44:03:19, 44:07, 44:81, 44:103, 44:111, 44:134
														56							63		-	*44:03:17
						48						54		56	57				61		63		B44	*44:06
						48								56	57						63		B44	*44:08
						48							55	56	57							64	B45	*44:09
						48								56			59				63		B44	*44:10
						48								56			59				63		B44	*44:14
														56		59					63		B12	*44:15
						48								56	57						63		B47, B44, -	*44:16, 44:91, 44:132
						48								56							63		B44, -	*44:17, 44:43:01-44:43:02, 44:144
										52				56		59					63		B44	*44:18
						48								56	57						63		B44, -	*44:20, 44:100
						48				52		54		56							63		B44	*44:25, 44:50
			45			48								56							63		B44	*44:31
														56							63		B44, -	*44:37:01-44:37:02, 44:64:01-44:64:02
						48								56							63		B44, -	*44:40, 44:130
						48								56	57						63		B44, -	*44:41:01-44:41:02, 44:53, 44:99, 44:138Q
						48								56	57						63		B44	*44:44
						48							55	56								64	B12, -	*44:46, 44:75, 44:129
						48								56							63		B44, -	*44:47, 44:65
						48								56	57						63		B44	*44:49
						48								56							63		B44	*44:54
						48								56							63		-	*44:57
						48								56							63		-	*44:60, 44:110
						48								56							63		-	*44:62
						48								56	57						63		-	*44:83, 44:145
						47	48	50					55	56	57							64	-	*44:90
						48				52		54		56	57						63		-	*44:95
						47	48	50						56	57						63		-	*44:97
						48								56	57						63		-	*44:106
						48								56	57						63		-	*44:127
						48							55	56	57						64		-	*44:131
						48								56			59				63		-	*44:140
						48								56							62	63	-	*44:146
														56							63		-	*44:150
						48								56							63		-	*44:156



101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 70S

Lot-specific information

Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
HLA-B allele <sup>4</sup>	ser. <sup>17</sup>																					
*44:166	-	22			25				29													
*44:169	-				25												37					
*45:01, 45:05, 45:07, 45:11-45:14	B45, -				25				29			32										
*45:04	B21				25				29													
*45:06	B45				25				29			32										
*45:08	-				25				29													
*45:09	-				25				29				33									
*45:10	-				25				29		31											
*46:01:01-46:01:09, 46:04-46:05, 46:07N, 46:09-46:10, 46:14-46:16, 46:20, 46:22-46:24, 46:26-46:31, 46:34-46:38	B46, Null, -							28														
*46:02	B46							28														
*46:03, 46:08, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02, 46:25	B46, -							28														
*46:06	-							28														
*46:11	B22							28														
*46:12	-			24				28														
*46:17	-							28				33										
*46:18	-							28														
*46:32	-							28														
*46:33	-							28									37					
*47:01:01:01-47:01:02, 47:06-47:08	B47, -				25																	
*47:02	B47				25																	
*47:03	B47				25																	
*47:04-47:05	B17, -				25	26																
*48:01:01-48:01:04, 48:07, 48:09, 48:11, 48:15, 48:19-48:20, 48:22, 48:27, 48:29-48:30	B48, -	22										32										
*48:02:01-48:02:03, 48:25	B48, B70, -											32					37					
*48:03:01-48:03:02, 48:23	B48, -											32										
*48:04, 48:24	B48, -											32										
*48:05, 48:08, 48:10, 48:12, 48:14	B48, -	22										32										
*48:06	-	22																				
*48:13	-											32										
*48:16	B48	22										32										
*48:17	-	22										32										
*48:18	B48	22										32										
*48:21, 48:26	-					26						32										
*48:28	-	22										32			35							
*49:01:01, 49:01:03-49:01:04, 49:06, 49:08-49:10, 49:12-49:17, 49:19N, 49:22-49:24	B49, Null, -				25																	
*49:01:02, 49:11	B49, -				25																	
*49:02	B49				25																	
*49:03	B49																					
*49:04-49:05	B49				25																	
*49:07	-				25						31											
*49:18	-				25					30												
*49:20	-				25							32										
*49:21	-				25																	
*49:25	-		23																			
*49:26	-																36					
Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	



101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 70S

Lot-specific information

Lot No.: 70S																Lot-specific information																Well No.	
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	ser. <sup>17</sup>	HLA-B allele <sup>4</sup>									
				46										56							63		-	*44:166									
			45			48								56	57						63		-	*44:169									
		44											55	56			59					64	B45, -	*45:01, 45:05, 45:07, 45:11-45:14									
		44											55	56			59					64	B21	*45:04									
		44			47								55	56			59					64	B45	*45:06									
		44											55	56		58						64	-	*45:08									
		44											55	56								64	-	*45:09									
		44											55	56								64	-	*45:10									
					47		49													62		64	B46, Null, -	*46:01:01-46:01:09, 46:04-46:05, 46:07N, 46:09-46:10, 46:14-46:16, 46:20, 46:22-46:24, 46:26-46:31, 46:34-46:38									
				w			49													62		64	B46	*46:02									
					47		49															64	B46, -	*46:03, 46:08, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02, 46:25									
			45		47		49															64	-	*46:06									
					47		49										59					64	B22	*46:11									
					47		49													62		64	-	*46:12									
					47		49													62		64	-	*46:17									
					47		49									58						64	-	*46:18									
					47		49				w									62		64	-	*46:32									
					47		49													64		64	-	*46:33									
								50						56								63	B47, -	*47:01:01:01-47:01:02, 47:06-47:08									
								50					55	56								64	B47	*47:02									
								50					w	56							w	63	B47	*47:03									
														56								63	B17, -	*47:04-47:05									
		44							51					56								64	B48, -	*48:01:01-48:01:04, 48:07, 48:09, 48:11, 48:15, 48:19-48:20, 48:22, 48:27, 48:29-48:30									
		44												56								64	B48, B70, -	*48:02:01-48:02:03, 48:25									
		44	45											56								64	B48, -	*48:03:01-48:03:02, 48:23									
		44							51					56								64	B48, -	*48:04, 48:24									
		44												56								64	B48, -	*48:05, 48:08, 48:10, 48:12, 48:14									
		44							51					56								64	-	*48:06									
		44												56								64	-	*48:13									
		44							51					56								64	B48	*48:16									
		44	45											56								64	-	*48:17									
		44							51					56							63		B48	*48:18									
		44												56								64	-	*48:21, 48:26									
		44							51					56								64	-	*48:28									
										52	53			56			59					63	B49, Null, -	*49:01:01, 49:01:03-49:01:04, 49:06, 49:08-49:10, 49:12-49:17, 49:19N, 49:22-49:24									
										52				56			59					63	B49, -	*49:01:02, 49:11									
											53			56			59					63	B49	*49:02									
											53			56			59					63	B49	*49:03									
										52	53			56								63	B49	*49:04-49:05									
										52	53			56								63	-	*49:07									
										52	53			56								63	-	*49:18									
										52	53			56			59					63	-	*49:20									
										52	53			56			59					63	-	*49:21									
										52	53			56			59					63	-	*49:25									
42	43										53			56			59					63	-	*49:26									
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.									



101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
<b>HLA-B allele<sup>4</sup></b>	<b>ser.<sup>17</sup></b>																					
*50:01:01-50:01:03, 50:04-50:05, 50:08, 50:10-50:11, 50:13, 50:16, 50:18-50:19, 50:32	B50, -				25																	
*50:02	B45				25							32										
*50:06	-				25																	
*50:07	-																					
*50:09, 50:20	-				25																	
*50:12	-				25																	
*50:14	-				25					30												
*50:15	-				25																	
*50:17	-				25												37					
*50:31	-				25						31											
*51:01:01-51:01:03, 51:01:05-51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26-51:01:39, 51:01:41-51:02:03, 51:02:05-51:03, 51:05, 51:07:01-51:07:02, 51:09:01-51:09:02, 51:11N-51:12, 51:13:02-51:14, 51:16-51:19, 51:21-51:23, 51:26-51:33, 51:37-51:41N, 51:43, 51:48-51:53, 51:55, 51:57-51:58, 51:60, 51:63, 51:65-51:67, 51:69-51:77, 51:79-51:80, 51:82-51:91, 51:94-51:96, 51:98N, 51:100, 51:102-51:103, 51:105, 51:107-51:111, 51:113-51:117, 51:119-51:130, 51:132-51:134, 51:136-51:138, 51:140, 51:142, 51:145-51:146, 51:149N-51:152	B51, B5102, B5103, Null, blank, -									30												
*51:01:04, 51:02:04, 51:13:01, 51:24:01, 51:34-51:35, 51:92-51:93, 51:99, 51:131, 51:143-51:144	B51, B5102, -																					
*51:01:09, 51:01:21, 51:01:25, 51:24:03-51:24:04	B51, -									30												
*51:01:40, 51:54, 51:78:01-51:78:02	-									30												
*51:04, 51:46, 51:56:01-51:56:02, 51:139	B51, -									30							37					
*51:06:01-51:06:02, 51:59, 51:135	B51, -									30												
*51:08, 51:20, 51:44N, 51:97, 51:141	B51, Null, -								29	30												
*51:10	B51																					
*51:15, 51:62	-																					
*51:24:02	B51																					
*51:36	B51								29													
*51:42	-																37					
*51:45, 51:81	-																					
*51:61:01-51:61:02	-									30												
*51:64	-				24					30												
*51:68	-			23						30												
*51:101	-									30												41
<b>Well No.</b>		<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	ser. <sup>17</sup>	Well No.
																								HLA-B allele <sup>4</sup>
		44									53		55	56			59					64	B50, -	*50:01:01-50:01:03, 50:04-50:05, 50:08, 50:10-50:11, 50:13, 50:16, 50:18-50:19, 50:32
		44									53		55	56			59					64	B45	*50:02
		44									53			56			59					64	-	*50:06
		44									53		55	56			59					64	-	*50:07
		44									53		55	56								64	-	*50:09, 50:20
		44											55	56			59					64	-	*50:12
		44									53		55	56								64	-	*50:14
		44									53		55				59					64	-	*50:15
		44											55	56			59					64	-	*50:17
		44									53		55	56								64	-	*50:31
												53	54						61			63	B51, B5102, B5103, Null, blank, -	*51:01:01-51:01:03, 51:01:05-51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26-51:01:39, 51:01:41-51:02:03, 51:02:05-51:03, 51:05, 51:07:01-51:07:02, 51:09:01-51:09:02, 51:11N-51:12, 51:13:02-51:14, 51:16-51:19, 51:21-51:23, 51:26-51:33, 51:37-51:41N, 51:43, 51:48-51:53, 51:55, 51:57-51:58, 51:60, 51:63, 51:65-51:67, 51:69-51:77, 51:79-51:80, 51:82-51:91, 51:94-51:96, 51:98N, 51:100, 51:102-51:103, 51:105, 51:107-51:111, 51:113-51:117, 51:119, 51:130, 51:132-51:134, 51:136, 51:138, 51:140, 51:142, 51:145-51:146, 51:149N-51:152
												53	54						61			63	B51, B5102, -	*51:01:04, 51:02:04, 51:13:01, 51:24:01, 51:34-51:35, 51:92-51:93, 51:99, 51:131, 51:143-51:144
		44									53	54							61			63	B51, -	*51:01:09, 51:01:21, 51:01:25, 51:24:03-51:24:04
											53								61			63	-	*51:01:40, 51:54, 51:78:01-51:78:02
							49					54							61			63	B51, -	*51:04, 51:46, 51:56:01-51:56:02, 51:139
												54							61			63	B51, -	*51:06:01-51:06:02, 51:59, 51:135
											53	54							61			63	B51, Null, -	*51:08, 51:20, 51:44N, 51:97, 51:141
		44										54					59		61			63	B51	*51:10
		44									53	54							61			63	-	*51:15, 51:62
											53	54							61			63	B51	*51:24:02
						48						54							61			63	-	*51:36
												54							61			63	-	*51:42
												54							61			63	-	*51:45, 51:81
											53	54							61		62	63	-	*51:61:01-51:61:02
												54							61			63	-	*51:64
											53	54							61			63	-	*51:68
											53	54							61			63	-	*51:101
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **70S**

Lot-specific information

Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
<b>HLA-B allele<sup>4</sup></b>	<b>ser.<sup>17</sup></b>																					
*51:104, 51:118N, 51:147, 58:08:01-58:08:02 <sup>11</sup>	B17, B5, Null, -									30												
*51:106	-									30												
*51:112	-									30												
*51:148, 53:14 <sup>12</sup>	-			24																		
*52:01:01:01-52:01:04, 52:01:06-52:01:09, 52:01:11- 52:01:14, 52:01:16-52:13, 52:15, 52:17-52:18, 52:22- 52:24, 52:27-52:31	B52, -									30												
*52:01:05, 52:01:15, 52:14	B52, -																					
*52:01:10	-									30												
*52:16	-									30		32										
*52:19	-								29	30												
*52:20	-									30												
*52:21	-									30												
*52:25	-																					
*52:26	-						27			30												
*53:01:01-53:01:08, 53:04- 53:05, 53:07-53:08:02, 53:10, 53:16, 53:18-53:21, 53:23- 53:27, 53:29	B53, -																37					
*53:02, 53:06	B53, B51																37					
*53:03, 53:09, 53:11-53:13	B53, B35																37					
*53:15	-	22															37					
*53:17:01-53:17:02	-																37					
*53:22	-											33					37					
*53:28	-									30							37					
*53:30, 57:45, 57:51 <sup>13</sup>	-				25												37					
*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, 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, 56:10 <sup>14</sup>	B55, B54, -																					
*54:03	B22																					
*54:04, 54:09, 54:14-54:15	B54, -																					
*54:06	-																					
*54:11	B54																					
*54:12	-																					
*54:20	-																					
*54:26	-										31											
*55:01:01-55:01:06, 55:01:08- 55:01:10, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:44- 55:45, 55:52-55:55N	B55, Null, -																					
*55:04, 55:08, 55:13, 55:23, 55:27, 55:32, 55:46, 55:49, 56:01:05, 56:15, 56:18- 56:19N, 56:22, 56:31-56:32 <sup>15</sup>	B55, B56, Null, -																					
*55:09, 55:24	B22, B55										31											
<b>Well No.</b>		<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	ser. <sup>17</sup>	Well No. HLA-B allele <sup>4</sup>	
											53	54									63		B17, B5, Null, -	*51:104, 51:118N, 51:147, 58:08:01-58:08:02 <sup>11</sup>	
											53	54				59	61				63		-	*51:106	
										52	53	54									63		-	*51:112	
											54									61	63		-	*51:148, 53:14 <sup>12</sup>	
											53	54		56							63		B52, -	*52:01:01:01-52:01:04, 52:01:06-52:01:09, 52:01:11-52:01:14, 52:01:16-52:13, 52:15, 52:17-52:18, 52:22-52:24, 52:27-52:31	
42											53	54		56							63		B52, -	*52:01:05, 52:01:15, 52:14	
											53	54		56							63		-	*52:01:10	
											53	54		56							63		-	*52:16	
											53	54		56							63		-	*52:19	
											53			56							63		-	*52:20	
											53	54		56						62	63		-	*52:21	
											53	54		56		59					63		-	*52:25	
											53	54		56							63		-	*52:26	
												54							61		63		B53, -	*53:01:01-53:01:08, 53:04-53:05, 53:07-53:08:02, 53:10, 53:16, 53:18-53:21, 53:23-53:27, 53:29	
							49					54							61		63		B53, B51	*53:02, 53:06	
																			61		63		B53, B35	*53:03, 53:09, 53:11-53:13	
												54							61		63		-	*53:15	
												54		56						61	63		-	*53:17:01-53:17:02	
						48						54							61		63		-	*53:22	
							49					54		56							63		-	*53:28	
										52		54									63		-	*53:30, 57:45, 57:51 <sup>13</sup>	
						47		50							57	58						64		B54, Null, -	*54:01:01, 54:01:03-54:02, 54:05N, 54:07-54:08N, 54:10, 54:13, 54:16-54:19, 54:21-54:25, 54:27-54:28
						47		50								58						64		B55, B54, -	*54:01:02, 55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48, 55:50, 55:57, 56:10 <sup>14</sup>
						47		50							57	59						64	B22	*54:03	
						47		50							57							64	B54, -	*54:04, 54:09, 54:14-54:15	
						47		50							57					62	64		-	*54:06	
		44				47		50							57						64		B54	*54:11	
						47		50		52					57	58					63		-	*54:12	
						47		50			53				57	58					64		-	*54:20	
						47		50							57						64		-	*54:26	
						47		50			53					58						64		B55, Null, -	*55:01:01-55:01:06, 55:01:08-55:01:10, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:44-55:45, 55:52-55:55N
						47		50														64		B55, B56, Null, -	*55:04, 55:08, 55:13, 55:23, 55:27, 55:32, 55:46, 55:49, 56:01:05, 56:15, 56:18-56:19N, 56:22, 56:31-56:32 <sup>15</sup>
						47		50			53											64		B22, B55	*55:09, 55:24
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.	



101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: 70S

Lot-specific information

Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
HLA-B allele <sup>4</sup>	ser. <sup>17</sup>																					
*55:14	-																37					
*55:17, 55:28, 55:58	B55, -																					
*55:18	-											32										
*55:20	B22								29													
*55:21	B55																					
*55:22	B22											31										
*55:34	-																					
*55:40	-																					
*55:51	-			24																		
*55:56	-								29													
*56:01:01-56:01:04, 56:02, 56:04, 56:08, 56:14, 56:16, 56:20:01, 56:24, 56:26-56:30, 56:34-56:36, 56:38N	B56, Null, -																					
*56:03	B22, 15																					
*56:05:01	B56									30												
*56:05:02	B56									30												
*56:06	B78									30									38			
*56:07	B56																					
*56:09, 56:11-56:12	B56, B22																37					
*56:13	B56								29													
*56:17, 56:33	B56, -																					
*56:20:02	-																					
*56:21	-									30												
*56:23	-																					
*56:25, 56:37	-																					
*56:39	-																					
*57:01:01-57:01:04, 57:01:06-57:03:02, 57:05-57:06, 57:08, 57:10, 57:15-57:20, 57:22-57:23, 57:25-57:30, 57:32-57:44, 57:46, 57:48-57:50, 57:52-57:58, 57:60-57:64, 58:36 <sup>16</sup>	B57, Null, -																37					
*57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47	B57, -																					
*57:04	B57						27											37				
*57:07, 57:24	B57, -																		37			
*57:09	B57								29										37			
*57:12	B57																		37			
*57:14	-																		37			
*57:59	-																		37			
*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, 58:28-58:29, 58:31N-58:35, 58:37, 58:39N-58:40, 58:42	B58, Null, -																37					
*58:01:03, 58:02, 58:06, 58:16:01, 58:25-58:27, 58:38	B58, -																					
*58:07	B58												33									
*58:09	B17																		37			
*58:17N	Null																		37			
*58:18	-			24																		
*58:20	-																					41
*59:01:01:01-59:01:01:02, 59:05	B59, -																					
*59:02-59:03	B59, -																					
*59:04	-																					
Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	ser. <sup>17</sup>	Well No. HLA-B allele <sup>4</sup>	
					47			50									60					64	-	*55:14	
					47			50			53											64	B55, -	*55:17, 55:28, 55:58	
														56		58						64	-	*55:18	
				46	47			50														64	B22	*55:20	
					47			50			w					58				62		64	B55	*55:21	
					47			50														64	B22	*55:22	
					47			50						56		58						64	-	*55:34	
					47			50			53			56		58						64	-	*55:40	
					47			50														64	-	*55:51	
					47			50								58						64	-	*55:56	
					47			50									59					64	B56, Null, -	*56:01:01-56:01:04, 56:02, 56:04, 56:08, 56:14, 56:16, 56:20:01, 56:24, 56:26-56:30, 56:34-56:36, 56:38N	
					47			50												62		64	B22, 15	*56:03	
					47			50			53					58						64	B56	*56:05:01	
					47			50			53											64	B56	*56:05:02	
					47			50			53					58			w			64	B78	*56:06	
					47			50									59				63		64	B56	*56:07
					47			50														64	B56, B22	*56:09, 56:11-56:12	
					47			50									59					64	B56	*56:13	
					47			50									59					64	B56, -	*56:17, 56:33	
		44			47			50									59					64	-	*56:20:02	
					47			50			52 53											63	-	*56:21	
					47			50								58						64	-	*56:23	
					47			50			53						59					64	-	*56:25, 56:37	
					47			50	w								59					64	-	*56:39	
														54								63	B57, Null, -	*57:01:01-57:01:04, 57:01:06- 57:03:02, 57:05-57:06, 57:08, 57:10, 57:15-57:20, 57:22- 57:23, 57:25-57:30, 57:32- 57:44, 57:46, 57:48-57:50, 57:52-57:58, 57:60-57:64, 58:36 <sup>16</sup>	
													54				60					63	B57, -	*57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47	
												54					60					63	B57	*57:04	
					48							54					60					63	B57, -	*57:07, 57:24	
					48							54					60					63	B57	*57:09	
																	60					64	B57	*57:12	
							49					54					60					63	-	*57:14	
			45									54					60					63	-	*57:59	
												54										63	B58, Null, -	*58:01:01-58:01:02, 58:01:04- 58:01:12, 58:04-58:05, 58:10N 58:15, 58:19, 58:21-58:24, 58:28-58:29, 58:31N-58:35, 58:37, 58:39N-58:40, 58:42	
												54										63	B58, -	*58:01:03, 58:02, 58:06, 58:16:01, 58:25-58:27, 58:38	
												54										63	B58	*58:07	
							49					54										63	B17	*58:09	
												54										63	Null	*58:17N	
												54										63	-	*58:18	
												54										63	-	*58:20	
										52						58						63	B59, -	*59:01:01:01-59:01:01:02, 59:05	
										52												63	B59, -	*59:02-59:03	
										52							59					63	-	*59:04	
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.	



101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
HLA-B allele <sup>4</sup>	ser. <sup>17</sup>																					
*67:01:01, 67:03	B67, -					26																41
*67:01:02-67:02	B67, -																					41
*73:01-73:02	B73, -																					
*78:01:01-78:01:02, 78:02:02-78:03, 78:07	B78, -									30								38				
*78:02:01, 78:04	B78, B35									30								38				
*78:05	-									30								38				
*78:06	-									30												
*81:01	B81	22																				
*81:03-81:06	Null, -	22																				
*82:01-82:03	B82, -								29			32							39			
*83:01	-																37					
A*23:31, A*24:106, C*07:231, C*16:10							27															
A*24:174												33										
A*26:68, A*68:56, C*02:56, C*06:20, C*12:50																						
C*01:30, C*12:87					25																	
C*01:73								28														
C*03:05, C*03:25, C*03:27, C*03:143, C*03:167				24																		
C*03:19																						
C*03:102																	37					
C*03:129, C*17:16																						
C*03:179																			39			
C*06:72																						
C*07:02:30, C*08:16:02								28														
C*07:46									29													
C*07:302																					40	
C*15:02:04																						
C*15:25																						
C*15:39																						
C*15:51																						41
Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	

<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 22 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band.

In addition, wells number 25, 26, 27, 31, 37, 40, 41, 47, 49, 53 and 60 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 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 B\*08:06 allele has been shown to be identical to B\*08:20.

The sequence of the B\*13:05 allele has been shown to be identical to B\*13:04.

The B\*13:24 allele has been renamed B\*13:22:02

The B\*15:01:05 allele has been corrected and renamed B\*15:120

The B\*15:22 allele has been renamed B\*35:43.

The sequence of the B\*15:41 allele has been shown to be identical to B\*15:39.

101.708-24 – including *Taq* polymerase, IFU-01  
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Lot No.: 70S

Lot-specific information

42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	Well No.	
																							ser. <sup>17</sup>	HLA-B allele <sup>4</sup>
		44			47																	64	B67, -	*67:01:01, 67:03
		44			47																	64	B67, -	*67:01:02-67:02
		44			47																62	64	B73, -	*73:01-73:02
											53					58			61			64	B78, -	*78:01:01-78:01:02, 78:02:02-78:03, 78:07
											53								61			64	B78, B35	*78:02:01, 78:04
											53			56								64	-	*78:05
											53			56								64	-	*78:06
					47			50	51													64	B81	*81:01
					47				51													64	Null, -	*81:03-81:06
					47			50									59					64	B82, -	*82:01-82:03
					47	48		50							57							64	-	*83:01
																								A*23:31, A*24:106, C*07:231, C*16:10
																								A*24:174
																					62			A*26:68, A*68:56, C*02:56, C*06:20, C*12:50
																								C*01:30, C*12:87
							49																	C*01:73
																								C*03:05, C*03:25, C*03:27, C*03:143, C*03:167
																59								C*03:19
															59									C*03:102
		45																						C*03:129, C*17:16
																								C*03:179
																								C*06:72
																								C*07:02:30, C*08:16:02
																								C*07:46
																								C*07:302
																								C*15:02:04
						48										58								C*15:25
							49																	C*15:39
																								C*15:51
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	Well No.	

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.

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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 B\*07:174 and the 81:02 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>6</sup>The B\*08:26, 08:50, 08:62, 08:85 and 08:94 and the B\*42:07 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

<sup>7</sup>The B\*13:04, 13:10, 13:21, 13:35 and 13:59 and the 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, 39:43, 39:47, 39:50, 39:74 and 39:82 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

<sup>9</sup>The B\*18:29 and 18:72 and the B\*35:09:01-35:09:03, 35:18, 35:31-35:32:02, 35:37, 35:53N, 35:64:01-35:64:02, 35:68:01-35:68:02, 35:75, 35:88, 35:99, 35:118-35:119, 35:127, 35:151, 35:174 and 35:205 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>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\*51:104, 51:118N and 51:147 and the B\*58:08:01-58:08:02 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\*51:148 and the B\*53:14 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\*53:30 and the B\*57:45 and 57:51 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>The B\*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 and 55:57 and the B\*56:10 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>15</sup>The B\*55:04, 55:08, 55:13, 55:23, 55:27, 55:32, 55:46, 55:49 and the B\*56:01:05, 56:15, 56:18-56:19N, 56:22 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>16</sup>The B\*57:01:01-57:01:04, 57:01:06-57:03:02, 57:05-57:06, 57:08, 57:10, 57:15-57:20, 57:22-57:23, 57:25-57:30, 57:32-57:44, 57:46, 57:48-57:50, 57:52-57:58 and 57:60-57:64 and the B\*58:36 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>17</sup>The grouping of not serologically defined alleles is taken from Tissue Antigens 73, 95-170, 2009.

‘ser’, serological HLA specificity.

‘w’, might be weakly amplified.

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

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INTERPRETATION TABLE		DR low resolution SSP typing		Amplification patterns of the DRB1*01:01 to DRB1*10:05 alleles		Well	
Well No.	DR	5'-primer(s) <sup>2</sup>	3'-primer(s) <sup>3</sup>	Length of int. pos. control <sup>1</sup>	PCR product(s)	Length of spec.	Well
65		5'-gAA <sup>3</sup> 14(129) 5'-A.T <sup>3</sup> 12(124)	5'-gAg <sup>3</sup> 66(286)	515	255 205	65	
66		5'-gAA <sup>3</sup> 14(129) 5'-gAA <sup>3</sup> 14(129)	5'-gAT <sup>3</sup> 66(286)	430	200	66	
67		5'-AAg <sup>3</sup> 13(126) 5'-Agg <sup>3</sup> 13(126)	5'-gAT <sup>3</sup> 66(286)	430	220 200	67	
68		5'-AAg <sup>3</sup> 13(126) 5'-Agg <sup>3</sup> 13(126)	5'-gAA <sup>3</sup> 66(286)	430	210	68	
69		5'-gTT <sup>3</sup> 47(227) 5'-gTC <sup>3</sup> 13(125)	5'-ggC <sup>3</sup> 73(305)	430	220 120	69	
70		5'-gTT <sup>3</sup> 15(133) 5'-gTC <sup>3</sup> 13(125)	5'-ggT <sup>3</sup> 26(164)	430	210 80	70	
71		5'-gTC <sup>3</sup> 13(125) 5'-gTC <sup>3</sup> 13(125)	5'-CTC <sup>3</sup> 28(171)	430	210 85	71	
72		5'-ACC <sup>3</sup> 13(125) 5'-ATA <sup>3</sup> 13(125)	5'-gTg <sup>3</sup> 32(184)	430	175 100	72	
73		5'-ATA <sup>3</sup> 13(127) 5'-ATA <sup>3</sup> 13(127)	5'-CCT <sup>3</sup> 70(298)	430	235 210	73	
74		5'-gTT <sup>3</sup> 15(133) 5'-gTT <sup>3</sup> 15(133)	5'-CCT <sup>3</sup> 58(260)	515	250 215 170	74	
75		5'-gAg <sup>3</sup> 58(261) 5'-TAT <sup>3</sup> 26(165)	5'-CgA <sup>3</sup> 57(257)	430	180 135 90	75	
76		5'-gCg <sup>3</sup> 30(178) 5'-gTA <sup>3</sup> 26(164)	5'-CgC <sup>3</sup> 73(307)	430	175	76	
77		5'-gTC <sup>3</sup> 15(133) 5'-gTC <sup>3</sup> 13(125)	5'-CCT <sup>3</sup> 58(260)	430	170 100	77	
78		5'-gTT <sup>3</sup> 15(133) 5'-gTT <sup>3</sup> 15(133)	5'-gTg <sup>3</sup> 29(175)	430	105 85	78	
79		5'-TAT <sup>3</sup> 12(122) 5'-gCT <sup>3</sup> 10(116)	5'-gTC <sup>3</sup> 69(295)	430	215	79	
80		5'-TAT <sup>3</sup> 12(122) 5'-gCT <sup>3</sup> 10(116)	5'-gAA <sup>3</sup> 66(286)	430	225 195	80	
81		5'-gTC <sup>3</sup> 13(125) 5'-gTC <sup>3</sup> 13(125)	5'-CgG <sup>3</sup> 58(260)	430	175	81	
82		5'-CAA <sup>3</sup> 1st I 430 155 140 100	5'-TCA <sup>3</sup> 42(213)	430	155 140 100	82	
83		5'-gTA <sup>3</sup> 37(197) 5'-gTT <sup>3</sup> 37(197)	5'-CAG <sup>3</sup> 57(257)	430	170 135 110	83	
84		5'-CAG <sup>3</sup> 34(189) 5'-gTA <sup>3</sup> 26(164)	5'-CAG <sup>3</sup> 57(257)	430	225 175 110	84	
85		5'-Agc <sup>3</sup> 36(196) 5'-CAG <sup>3</sup> 34(189)	5'-gTg <sup>3</sup> 59(265)	430	240 160	85	
86		5'-gCT <sup>3</sup> 10(116) 5'-gCT <sup>3</sup> 10(116)	5'-AAC <sup>3</sup> 77(317)	430	215	86	
87		5'-gAT <sup>3</sup> 28(170) 5'-gAT <sup>3</sup> 28(170)	5'-CTT <sup>3</sup> 86(346)	430	175	87	
		5'-gTA <sup>3</sup> 13(125) 5'-gTA <sup>3</sup> 13(125)	5'-CCT <sup>3</sup> 58(260)	430			



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Well No.	DR	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	
DRB1 allele <sup>4</sup>	ser <sup>9</sup>																								
*01:01:01-01:02:08, 01:04-01:38, 01:40N-01:41, 01:43-01:58	DR1, Null, -	65																							
*01:03, 01:39N	DR103, DR1, Null		66																						
*01:42	-	65	66																						
*03:01:01-03:01:22, 03:04:01-03:06, 03:09, 03:11:01-03:16, 03:18-03:20, 03:22-03:23, 03:25-03:26, 03:28, 03:30-03:31, 03:33-03:34, 03:36-03:37, 03:43-03:45, 03:47-03:48, 03:50-03:52, 03:54-03:63, 03:66-03:68N, 03:70-03:73, 03:75, 03:77-03:84, 03:86, 03:89	DR17, DR3, Null, -					69	70											81							
*03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74, 03:88, 03:90	DR18, DR3, -					69		71										81							
*03:07, 03:17, 03:21, 03:24, 03:32, 03:35, 03:39-03:41, 03:49	DR3, -					69												81							
*03:08, 03:65	DR3, -					69	70				75		77												
*03:10	DR3					69	70												83	84					
*03:42, 03:69, 03:87	-					69																			
*03:46, 03:64	-					69	70																		
*03:76	-						70					76			79		81								
*04:01:01-04:05:11, 04:05:13-04:61, 04:63-04:68, 04:70-04:72:02, 04:74-04:104, 04:106-04:121, 04:123-04:145, 04:147-04:158N	DR4, DR3, Null, -								72																
*04:62, 04:69, 04:73, 04:105:01-04:105:02, 04:122, 04:146	DR4, -								72										82						
*07:01:01-07:01:04, 07:03-07:24	DR7, Null, -									73															
*08:01:01-08:02:04, 08:04:01-08:07, 08:11, 08:16-08:17, 08:22, 08:24, 08:26, 08:28, 08:39, 08:42-08:44, 08:50, 08:52	DR8, -										74						80								
Well No.	DR	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	

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DRB1 allele <sup>4</sup>	ser <sup>9</sup>																							
*08:03:02-08:03:03, 08:10, 08:12-08:15, 08:18-08:19, 08:23, 08:25, 08:27, 08:29-08:30:03, 08:33-08:34, 08:36:01, 08:37-08:38, 08:45-08:49, 08:51	DR8, -										74													
*08:08	DR8										74						80		82					
*08:09, 14:15 <sup>5</sup>	DR8										74						80				84			
*08:20, 13:18, 13:47, 13:55, 13:158 <sup>6</sup>	DR13, -															79	80	81			84			
*08:21	DR8										74					79	80				84			
*08:31, 08:41, 11:67 <sup>7</sup>	DR8, DR11, -										74			77			80							
*08:32, 08:53	-										74				78						84			
*08:35, 08:36:02	-										74										84			
*08:40	-						70				74													
*09:01:02-09:01:05, 09:01:07-09:02:02, 09:04-09:20	DR9, -											75								83				
*09:01:06, 09:03	DR9											75												
*10:01:01-10:05	DR10, -												76											
*11:01:01-11:01:17, 11:04:01-11:04:11, 11:06:01-11:06:03, 11:09-11:10:02, 11:12:01-11:12:02, 11:15, 11:24, 11:27:01-11:30, 11:32-11:33, 11:35, 11:37:01-11:39, 11:43-11:44, 11:46:01-11:47, 11:49:01-11:51, 11:54:01-11:54:02, 11:56, 11:58:01-11:58:02, 11:60-11:62, 11:66, 11:72, 11:74:01-11:75, 11:77-11:78, 11:81, 11:84:01-11:84:02, 11:88, 11:90-11:92, 11:94-11:95, 11:97, 11:99-11:102:02, 11:106, 11:108-11:117, 11:120-11:121, 11:123, 11:126, 11:128-11:129, 11:133-11:134, 11:137, 11:140-11:141, 11:144-11:145	DR11, -														77		79	80						
*11:01:18, 11:08:01-11:08:02, 11:18-11:19:03, 11:42, 11:57, 11:130	DR11, -														77		79							
Well No.	DR	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87

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Well No.	DR	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87
DRB1 allele <sup>4</sup>	ser <sup>9</sup>																							
*11:02:01-11:03, 11:11:01-11:11:02, 11:14:01-11:14:02, 11:16, 11:20-11:21, 11:36, 11:40-11:41, 11:48, 11:63, 11:65:01-11:65:02, 11:68, 11:70, 11:76, 11:85-11:86, 11:93, 11:118, 11:122, 11:124, 11:127, 11:138-11:139	DR11, DR13, -						70							77		79	80							
*11:05	DR11													77			80							
*11:07, 11:53, 11:103, 11:105, 11:107, 11:125	DR11, -					69					75			77										
*11:13:01-11:13:02	DR11							w						77						83	84			
*11:17, 11:52	DR14, DR11													77						83	84			
*11:22, 11:98, 11:104, 11:136, 11:143	-													77										
*11:23:01, 11:25, 11:96	DR11, -													77		79	80				84			
*11:26, 11:34	DR11							71						77										
*11:31, 11:45, 11:64, 11:119	DR11, -													77		79					84			
*11:55	DR11													77			80				84			
*11:59, 11:80, 11:83, 11:87, 11:135, 11:142	DR11, -						70					76		77		79	80							
*11:69, 11:82	-													77			80			82				
*11:73, 11:79, 11:131-11:132	-						70							77		79								
*11:89	-													77							84			
*12:01:01-12:01:05, 12:03:02-12:03:03, 12:05-12:12, 12:14, 12:17, 12:24N-12:25, 12:28-12:30, 12:34-12:36, 12:38	DR12, Null, -															78								
*12:02:01-12:02:05, 12:13, 12:15, 12:18-12:21, 12:23, 12:26-12:27, 12:31N-12:33, 12:37	DR12, Null, -															78		80						
*12:04, 12:39	DR12, -											74				78								
*12:16:01-12:16:02	-											74				78		80						
*12:22	-										73	74				78								
Well No.	DR	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87

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Well No.	DR	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87
DRB1 allele <sup>4</sup>	ser <sup>9</sup>																							
*13:01:01-13:02:01, 13:02:03-13:02:08, 13:04, 13:08, 13:16, 13:20, 13:22-13:24, 13:28-13:29, 13:31-13:32, 13:34-13:36, 13:38-13:40, 13:48, 13:51-13:52, 13:54, 13:59, 13:61:01-13:61:02, 13:63-13:65, 13:68-13:70, 13:72-13:76, 13:78-13:80, 13:83-13:84, 13:87, 13:91-13:93, 13:96:01-13:99, 13:102, 13:105-13:107, 13:109, 13:111-13:114, 13:117, 13:121, 13:123-13:128, 13:130-13:131, 13:135, 13:138-13:143, 13:145, 13:147-13:149, 13:153, 13:155	DR13, DR11, DR14, Null, -						70									79	80	81						
*13:02:02	DR13						70											81						
*13:03:01-13:03:06, 13:10, 13:33:01-13:33:03, 13:37, 13:66:01-13:66:02, 13:81, 13:88-13:90, 13:94:01-13:95, 13:101, 13:115, 13:120, 13:133, 13:137N, 13:151-13:152	DR13, Null, -						70									79		81						
*13:05:01-13:05:02, 13:07:01-13:07:02, 13:11:01-13:11:02, 13:14:01-13:14:03, 13:21:01-13:21:02, 13:42, 13:46, 13:49-13:50:02, 13:62, 13:100, 13:108, 13:132, 13:136, 13:150	DR13, DR11, DR6, -															79	80	81						
*13:06, 13:12:01-13:12:03, 13:25, 13:30, 13:56, 13:58, 13:60, 13:77, 13:82, 13:110, 13:118, 13:134, 13:157, 13:161	DR13, DR11, DR6, -															79		81						
*13:09	DR13																80	81						
*13:13, 13:119, 13:154, 13:156, 14:84, 14:116 <sup>8</sup>	DR13, -															79		81		84				
*13:15, 13:19, 13:53, 13:57, 13:104	DR13, -						70	71								79	80	81						
*13:17, 13:116	DR13, -						70			73							80							
Well No.	DR	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87

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Well No.	DR	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87
<b>DRB1 allele<sup>4</sup></b>	<b>ser<sup>9</sup></b>																							
*13:26:01-13:26:02	DR14, -							71								79	80	81						
*13:27, 13:41, 13:71	DR13						70					76				79	80	81						
*13:43, 13:159	DR13, -						70									79	80			83	84			
*13:44, 13:86	-							71										81						
*13:45	DR13						70									79	80		82		84			
*13:67, 13:103, 13:160	DR13, -															79	80							
*13:85	-						70	71								79		81						
*13:122	-						70									79								
*13:129	-						70					76					80	81						
*13:144	-						70									79	80	81			84			
*13:146	-																80	81			84			
*14:01:01-14:01:02, 14:01:04, 14:04, 14:07:01-14:07:02, 14:10, 14:26, 14:28, 14:31, 14:32:03, 14:35, 14:38-14:39, 14:54:01, 14:55, 14:57, 14:60-14:62, 14:70-14:71, 14:75-14:76, 14:79, 14:86-14:88, 14:90, 14:99, 14:101, 14:104, 14:107, 14:110-14:114, 14:117-14:118, 14:120, 14:122, 14:124-14:125, 14:129, 14:131, 14:138-14:140	DR14, DR1404, DR4, DR6, -																		82	83	84			
*14:01:03, 14:08, 14:23:02, 14:34, 14:54:02, 14:72, 14:92N, 14:97, 14:126, 14:130, 14:133	DR14, Null, -																			83	84			
*14:02, 14:06:01-14:06:02, 14:09, 14:13, 14:17, 14:20, 14:29-14:30, 14:33, 14:41, 14:47-14:48, 14:51, 14:80, 14:83, 14:94, 14:106, 14:108, 14:121	DR14, DR6, -							71										81		83				
*14:03:01-14:03:02, 14:12:01-14:12:02, 14:40, 14:63, 14:67, 14:77-14:78, 14:85, 14:102, 14:115, 14:135	DR1403, DR14, DR6, -							71								79		81			84			
*14:05:01-14:05:04, 14:14, 14:23:01, 14:23:03-14:23:04, 14:36, 14:43-14:45, 14:56, 14:59, 14:64, 14:91, 14:96, 14:100, 14:103, 14:123, 14:127:01-14:127:02, 14:134	DR14, -																	81		83	84			
<b>Well No.</b>	<b>DR</b>	<b>65</b>	<b>66</b>	<b>67</b>	<b>68</b>	<b>69</b>	<b>70</b>	<b>71</b>	<b>72</b>	<b>73</b>	<b>74</b>	<b>75</b>	<b>76</b>	<b>77</b>	<b>78</b>	<b>79</b>	<b>80</b>	<b>81</b>	<b>82</b>	<b>83</b>	<b>84</b>	<b>85</b>	<b>86</b>	<b>87</b>



101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: 70S

Lot-specific information

Well No.	DR	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87
DRB1 allele <sup>4</sup>	ser <sup>9</sup>																							
*14:11	DR14									74										83	84			
*14:16	DR6					70										79	80		82	83	84			
*14:18, 14:81	DR14, -							71										81		83	84			
*14:19, 14:21, 14:109	DR14, -					70	71									79		81		w				
*14:22, 14:105	DR14, -															79	80		82	83	84			
*14:24	DR14							71									80	81						
*14:25, 14:53, 14:128	DR6, DR13, 14, -															79	80		82		84			
*14:27	DR14							71								79	80	81			84			
*14:32:01-14:32:02	DR14							w											82	83	84			
*14:37	DR14																80	81	82					
*14:42, 14:136	-																	81			84			
*14:46, 14:52	DR14																			83				
*14:49, 14:119	DR14, -							71											82	83	84			
*14:50	DR14									73									82	83	84			
*14:58	DR14																		82		84			
*14:65	DR6							w										81		83	84			
*14:68, 14:93	DR14, -									74									82	83	84			
*14:69	-															79			82		84			
*14:73	-																80		82	83	84			
*14:74	-															79			82	83	84			
*14:82	-						70												82	83	84			
*14:89	-							71										81			84			
*14:95	-						70											81		83	84			
*14:98	-							71								79		81						
*14:132	-						70													83	84			
*14:137N	Null						70									79			82	83	84			
*15:01:01:01-15:20, 15:22-15:24, 15:26, 15:28-15:33, 15:35-15:65, 15:67-15:94	DR15, DR2, Null, -			67																				
*15:21	DR2			67																	w			
*15:25	-			67		69																		
*15:27, 15:34, 15:66	-			67																83				
*16:01:01-16:03, 16:05:01-16:05:02, 16:07-16:17, 16:19-16:23	DR16, Null, -				68																			
*16:04, 16:18	DR16, -				68																w			
Well No.	DR	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

Well No.	DR	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	
DRB1 allele <sup>4</sup>	ser <sup>9</sup>																								
<i>DRB3*01:01:02:01-01:15,</i> <i>DRB3*02:01:02:26,</i> <i>DRB3*02:28:02:29N,</i> <i>DRB3*03:01:01-03:03</i>	DR52, Null, -																						85		
<i>DRB3*02:27</i>	-															79							85		
<i>DRB4*01:01:01:01-01:03:01:01,</i> <i>DRB4*01:03:01:03-01:08</i>	DR53, -																							86	
<i>DRB4*01:03:01:02N</i>	Null																		82					86	
<i>DRB5*01:01:01-01:14,</i> <i>DRB5*02:02-02:06</i>	DR51, -, Null, -																								87
Well No.	ser <sup>9</sup>	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	

<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 65 contains the primer pair giving rise to the longer, 515 bp, internal positive control band. In addition, well number 74 contains the primer pair giving rise to the longer, 515 bp, internal positive control band.

<sup>2</sup>The codon, and in parenthesis the nucleotide, in the 2<sup>nd</sup> exon or the 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\*04:05:12 allele has been shown to be identical to DRB1\*04:05:14.

The DRB1\*0702 allele has been shown to be identical to DRB1\*07:01:01:01.

The DRB1\*08031 allele has been shown to be identical to DRB1\*08:03:02.

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

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

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

The DRB1\*12031 allele has been shown to be identical to DRB1\*12:01:01.

The DRB1\*1466 allele has been shown to be identical to DRB1\*14:23:02.

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

The DRB3\*010101 allele has been shown to be identical to DRB3\*01:01:02:01.

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

The DRB5\*0201 allele has been shown to be identical to DRB5\*02:02.

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.

<sup>6</sup>The DRB1\*08:20 and the DRB1\*13:18, 13:47, 13:55 and 13:158 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

<sup>7</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>8</sup>The DRB1\*13:13, 13:119, 13:154, 13:156 and the DRB1\*14:84 and 14:116 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

<sup>9</sup>The grouping of not serologically defined alleles is taken from Tissue Antigens 73, 95-170, 2009.

'ser', serological HLA specificity.

'w', may be weakly amplified.

'?', nucleotide sequence information for the primer matching region(s) is not known.

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: 70S

Lot-specific information

INTERPRETATION TABLE										
DQ low resolution SSP typing										
Amplification patterns of the DQB1*05:01 to DQB1*04:12 alleles										
		Well <sup>6</sup>								
		88	89	90	91	92	93	94	95	96
Length of spec.		225	220	210	220	130	135	85	160	Negative control
PCR product(s)		275			185					
Length of int.		515	515	430	515	515	515	515	430	
pos. control <sup>1</sup>										
5'-primer(s) <sup>2</sup>		25(170) 5'-gCA 3'	9(122) 5'-gTT 3'	29(184) 5'-gAg 3'	26(173) 5'-TTA 3'	28(179) 5'-gAC 3'	26(173) 5'-TCT 3'	38(210) 5'-gCA 3'	38(210) 5'-gCg 3'	
		26(173) 5'-ggg 3'	24(169) 5'-TgT 3'	30(185) 5'-AAg 3'		28(179) 5'-gAC 3'		71(309) 5'-ACC 3'		
			26(173) 5'-TTA 3'					71(309) 5'-ACC 3'		
			26(173) 5'-TCT 3'							
3'-primer(s) <sup>3</sup>		87(356) 5'-ggT 3'	86(353) 5'-ACg 3'	86(353) 5'-gCT 3'	86(353) 5'-gCT 3'	57(266) 5'-Cgg 3'	57(266) 5'-CgT 3'	86(353) 5'-gCT 3'	77(327) 5'-ACg 3'	
			86(353) 5'-ACC 3'		86(354) 5'-AgT 3'			86(354) 5'-AgT 3'		
			86(354) 5'-TAT 3'							
Well No.		88	89	90	91	92	93	94	95	96
DQB1 allele <sup>4</sup>	ser. <sup>5</sup>									
*05:01:01:01-05:26	DQ5, -	88								
*06:01:01-06:28, 06:30-06:50, 06:52-06:65, 06:67-06:84	DQ6, DQ5, DQ1, Null, -		89							
*06:29	DQ6		89			92				
*06:51, 06:66	-		89				93			
*02:01:01-02:02:02, 02:04-02:29	DQ2, Null, -			90						
*02:03	DQ2			90			93			
*03:01:01:01-03:01:16, 03:04, 03:09-03:10, 03:13-03:14:02, 03:16, 03:19, 03:21-03:22, 03:24, 03:27-03:29, 03:35-03:36, 03:42, 03:44, 03:46-03:60, 03:69, 03:71	DQ7, DQ3, -				91			94		
*03:02:01-03:02:07, 03:05:01-03:05:04, 03:07-03:08, 03:11, 03:18, 03:32, 03:37, 03:45, 03:61, 03:63-03:64, 03:66N-03:68, 03:70	DQ8, Null, -					92		94		
*03:03:02:01-03:03:06, 03:06, 03:12, 03:15, 03:20, 03:25-03:26, 03:30-03:31, 03:33-03:34, 03:38-03:41, 03:43, 03:65	DQ9, DQ3, -						93	94		
*03:17:01-03:17:02, 03:23, 03:62, 03:72	DQ9, -							94		
*04:01:01-04:02:03, 04:04-04:09, 04:11-04:12	DQ4, -								95	
*04:03:01-04:03:02	-						93		95	
DQB1 allele <sup>4</sup>	ser. <sup>5</sup>									
Well No.		88	89	90	91	92	93	94	95	96

101.708-24 – including *Taq* polymerase, IFU-01  
101.708-24u – without *Taq* polymerase, IFU-02

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**Lot No.: 70S****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 88 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 DQ low resolution typing.

In addition, wells number 89, 91, 92, 93 and 94 contain 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, 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 sequence of the DQB1\*03031 allele has been shown to be identical to DQB1\*03:03:02.

<sup>5</sup>The serological split of the DQB1\*05:05-05:26, DQB1\*06:06 to 06:07 alleles, the DQB1\*06:10, 06:13, 06:15-06:24 and 06:27 to 06:84, the DQB1\*02:04-02:29, the DQB1\*03:07-03:09 and 03:11-03:72 alleles and the DQB1:04:0301-04:12 alleles is not known. In this table we have used the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170, and also inferred the serological grouping from the naming 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.

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A low resolution primer set																			
				Lot No.:	Well														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
					201321701	201211702	201321703	201211704	201211706	201211707	201211708	201211709	201211710	201211711	201321712	201211713	201321714	201321715	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		-	+	-	+	-	-	-	-	-	+	-	-	-	-	-

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: 70S

Lot-specific information

CELL LINE VALIDATION SHEET									
HLA-A low resolution primer set									
				Well					
				16	17	18	19	20	21
				201211717	201321718	201321719	201211720	201321721	201211723
	IHWC cell line	A*	A*	Lot No.:					
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		-	-	-	-	-

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-B low resolution SSP kit</b>																			
			Prod. No.:	Well															
				22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
				201321848	201318702	201321803	201318704	201318705	201320806	201318707	201321808	201321809	201318710	201318711	201318713	201318714	201318715	201318716	
	<b>IHWC cell line</b>	<b>B*</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	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: 70S

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																	
<b>HLA-B low resolution SSP kit</b>																	
			Prod. No.:	Well													
				37	38	39	40	41	42	43	44	45	46	47	48	49	50
				201318717	201321818	201318719	201318720	201318721	201320822	201320823	201320824	201318725	201318727	201318728	201322929	201318731	201318732
	<b>IHWC cell line</b>	<b>B*</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	+	+	-	-	-	-	-	-	-	-	-	+	-	-

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																	
<b>HLA-B low resolution SSP kit</b>																	
				Well													
				51	52	53	54	55	56	57	58	59	60	61	62	63	64
			Prod. No.:	201318733	201318734	201318735	201318736	201318737	201318738	201318739	201318740	201318741	201321842	201318744	201318745	201318746	201318747
	<b>IHWC cell line</b>		<b>B*</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	-	-	-	-	-	-	+	-	-	-	+	-	+	+

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>DR low resolution primer set</b>																			
				Well															
				65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
				Prod. No.:															
				201321901	201209002	201209003	201209004	201209005	201209006	201209007	201209008	201209009	201209010	201209011	201209012	201209013	201209014	201209015	201209016
	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	*14:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	+
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		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 70S

Lot-specific information

CELL LINE VALIDATION SHEET											
DR low resolution primer set											
				Well <sup>1</sup>							
				81	82	83	84	85	86	87	
			Prod. No.:	201209017	201209018	201209019	201321920	201209029	201209030	201209031	
	IHWC cell line		DRB1								
1	9001 SA		*01:01	-	-	-	-	-	-	-	
2	9280 LK707		*15:02	*04:05	-	-	-	-	-	+	+
3	9011 E4181324		*15:02		-	-	-	-	-	-	+
4	9275 GU373		*03:01		+	-	-	-	+	-	-
5	9009 KAS011		*16:01		-	-	-	-	-	-	+
6	9353 SM		*04:07	*08:03	-	-	-	-	-	+	-
7	9020 QBL		*03:01		+	-	-	-	+	-	-
8	9025 DEU		*04:01		-	-	-	-	-	+	-
9	9026 YAR		*04:02		-	-	-	-	-	+	-
10	9107 LKT3		*04:05		-	-	-	-	-	+	-
11	9051 PITOUT		*07:01		-	-	-	-	-	+	-
12	9052 DBB		*07:01		-	+	-	-	-	+	-
13	9004 JESTHOM		*01:01		-	-	-	-	-	-	-
14	9071 OLGA		*08:02		-	-	-	-	-	-	-
15	9075 DKB		*09:01		-	-	+	-	-	+	-
16	9037 SWEIG007		*11:01		-	-	-	-	+	-	-
17	9282 CTM3953540		*03:01	*13:01	+	-	-	-	+	-	-
18	9257 32367		*09:01	*11:01	-	-	+	-	+	+	-
19	9038 BM16		*12:01		-	-	-	-	+	-	-
20	9059 SLE005		*13:02		+	-	-	-	+	-	-
21	9064 AMALA		*14:02		+	-	+	-	+	-	-
22	9056 KOSE		*13:02	*14:01	+	+	+	+	+	-	-
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		-	-	-	-	-	-	-

<sup>1</sup>The DRB4\*01:03:01:02N allele is amplified by primer mix 82 in the DBB/9052 cell line.

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 70S

Lot-specific information

CELL LINE VALIDATION SHEET											
DQ low resolution primer set											
				Well							
				88	89	90	91	92	93	94	95
				201323101	201323102	201323103	201323104	201316105	201316106	201323107	201323108
			Production No.								
	IHWC cell line		DQB1								
1	9001 SA		*05:01	+	-	-	-	-	-	-	-
2	9280 LK707		*06:01	-	+	+	-	-	-	-	-
3	9011 E4181324		*06:01	-	+	-	-	-	-	-	-
4	9275 GU373		*02:01	-	-	+	-	-	-	-	-
5	9009 KAS011		*05:02	+	-	-	-	-	-	-	-
6	9353 SM		*03:02	-	+	-	-	+	-	+	-
7	9020 QBL		*02:01	-	-	+	-	-	-	-	-
8	9025 DEU		*03:01	-	-	-	+	-	-	+	-
9	9026 YAR		*03:02	-	-	-	-	+	-	+	-
10	9107 LKT3		*04:01	-	-	-	-	-	-	-	+
11	9051 PITOUT		*02:02	-	-	+	-	-	-	-	-
12	9052 DBB		*03:03	-	-	-	-	-	+	+	-
13	9004 JESTHOM		*05:01	+	-	-	-	-	-	-	-
14	9071 OLGA		*04:02	-	-	-	-	-	-	-	+
15	9075 DKB		*03:03	-	-	-	-	-	+	+	-
16	9037 SWEIG007		*03:01	-	-	-	+	-	-	+	-
17	9282 CTM 3953540		*02:01	-	+	+	-	-	-	-	-
18	9257 32367		*06:02	-	+	+	-	-	-	-	-
19	9038 BM16		*03:01	-	-	-	+	-	-	+	-
20	9059 SLE005		*06:04	-	+	-	-	-	-	-	-
21	9064 AMALA		*03:01	-	-	-	+	-	-	+	-
22	9056 KOSE		*05:03	+	+	-	-	-	-	-	-
23	9124 IHL		*05:03	+	+	-	-	-	-	-	-
24	9035 JBUSH		*03:01	-	-	-	+	-	-	+	-
25	9049 IBW9		*02:02	-	-	+	-	-	-	-	-
26	9285 WT49		*02:01	-	-	+	-	-	-	-	-
27	9191 CH1007		*04:01	+	-	-	-	-	-	-	+
28	9320 BEL5GB		*02:02	-	-	+	+	-	-	+	-
29	9050 MOU		*02:02	-	-	+	-	-	-	-	-
30	9021 RSH		*04:02	-	-	-	-	-	-	-	+
31	9019 DUCAF		*02:01	-	-	+	-	-	-	-	-
32	9297 HAG		*03:01	-	-	-	+	-	-	+	-
33	9098 MT14B		*03:02	-	-	-	-	+	-	+	-
34	9104 DHIF		*03:01	-	-	-	+	-	-	+	-
35	9302 SSTO		*03:05	-	-	-	-	+	-	+	-
36	9024 KT17		*03:02	-	-	-	-	+	-	+	-
37	9065 HHKB		*06:03	-	+	-	-	-	-	-	-
38	9099 LZL		*03:01	-	-	-	+	-	-	+	-
39	9315 CML		*02:01	-	-	+	+	-	-	+	-
40	9134 WHONP199		*02:02	-	-	+	-	-	+	+	-
41	9055 H0301		*06:09	-	+	-	-	-	-	-	-
42	9066 TAB089		*06:01	-	+	-	-	-	-	-	-
43	9076 T7526		*03:03	-	-	-	-	-	+	+	-
44	9057 TEM		*05:03	+	-	-	-	-	-	-	-
45	9239 SHJO		*02:02	-	-	+	-	-	-	-	-
46	9013 SCHU		*06:02	-	+	-	-	-	-	-	-
47	9045 TUBO		*03:01	-	-	-	+	+	-	+	-
48	9303 TER-ND		*05:01	+	-	-	-	-	-	-	-

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **70S**

Lot-specific information

## CERTIFICATE OF ANALYSIS

### Olerup SSP® HLA-A-B-DR-DQ SSP Combi Tray

Product number: 101.708-24 – including *Taq* pol.  
 101.708-24u – without *Taq* pol.  
 Lot number: 70S  
 Expiry date: 2016-March-01  
 Number of tests: 24 tests  
 Number of wells per test: 95 +1

#### Well specifications:

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

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, 6, 7, 11, 13 to 16 and 19 to 21 were tested by separately adding one 3'-primer, respectively one 5'-primer. Additional 5'-primers in primer solution 1 and 18 were tested by separately adding one 3'-primer. Additional 3'-primers in primer solutions 3 and 17 were tested by separately adding one 5'-primer.

In primer solutions 2, 10, 11 and 14 one or two 5'-primers were not possible to test, and in primer solutions 3, 5, 7, 11, 12, 15 and 17 one 3'-primer was not possible to test.

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
22	2013-218-48	38	2013-218-18	54	2013-187-36
23	2013-187-02	39	2013-187-19	55	2013-187-37
24	2013-218-03	40	2013-187-20	56	2013-187-38
25	2013-187-04	41	2013-187-21	57	2013-187-39
26	2013-187-05	42	2013-208-22	58	2013-187-40
27	2013-208-06	43	2013-208-23	59	2013-187-41
28	2013-187-07	44	2013-208-24	60	2013-218-42
29	2013-218-08	45	2013-187-25	61	2013-187-44
30	2013-218-09	46	2013-187-27	62	2013-187-45
31	2013-187-10	47	2013-187-28	63	2013-187-46
32	2013-187-11	48	2013-229-29	64	2013-187-47
33	2013-187-13	49	2013-187-31		
34	2013-187-14	50	2013-187-32		
35	2013-187-15	51	2013-187-33		
36	2013-187-16	52	2013-187-34		
37	2013-187-17	53	2013-187-35		

101.708-24 – including *Taq* polymerase, IFU-01  
 101.708-24u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

**Lot No.: 70S****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 24, 27, 34, 39, 48, 49 and 58 were tested by separately adding one additional 3'-primer, respectively one additional 5'-primer. Additional 3'-primers in primer solutions 23, 29, 33, 35, 38 and 53 were tested by separately adding one additional 5'-primer. Additional 5'-primers in primer solutions 22, 41 and 45 were tested by separately adding one additional 3'-primer.

In primer mixes 49 and 60 one 5'-primer was not possible to test, and in primer mixes 24, 56 and 60 one or two 3'-primer was not possible to test.

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
65	2013-219-01	73	2012-090-09	81	2012-090-17
66	2012-090-02	74	2012-090-10	82	2012-090-18
67	2012-090-03	75	2012-090-11	83	2012-090-19
68	2012-090-04	76	2012-090-12	84	2013-219-20
69	2012-090-05	77	2012-090-13	85	2012-088-29
70	2012-090-06	78	2012-090-14	86	2012-088-30
71	2012-090-07	79	2012-090-15	87	2012-088-31
72	2012-090-08	80	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 73, 75 and 82 were tested by separately adding one 3'-primer, respectively one 5'-primer.

Additional 5'-primers in primer solutions 70, 76, 79 and 80 were tested by separately adding one 3'-primer. Additional 3'-primers in primer solutions 65, 67, 68, 74 and 84 were tested by separately adding one 5'-primer.

One, two or three of the 5'-primers in primer solution 65, 67, 68, 72 to 74, 77, 79, 80 and 84 were not possible to test. One or two of the 3'-primers in primer solution 65, 67, 68, 77, 79 and 86 were not possible to test.

Well No.	Production No.
88	2013-231-01
89	2013-231-02
90	2013-231-03
91	2013-231-04
92	2013-161-05
93	2013-161-06
94	2013-231-07
95	2013-231-08

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

One additional 5'-primer in primer solutions 89 and 94 were tested by separately adding one additional 3'-primer.

In primer mixes 88, 89 and 90 one 5'-primer was not possible to test, and in primer mixes 89, 91 and 94 one 3'-primer was not possible to test.

101.708-24 – including *Taq* polymerase, IFU-01  
101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

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

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

**Date of approval:** 2013-September-25

**Approved by**

**Production Quality Control**

101.708-24 – including *Taq* polymerase, IFU-01  
101.708-24u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **70S**

Lot-specific information

## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-A-B-DR-DQ SSP Combi Tray  
**Product number:** 101.708-24/24u  
**Lot number:** 70S

**Intended use:** HLA-A, HLA-B, HLA-DR and HLA-DQ 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  
2014-December-18

Daniel Malica  
Head of QA and Regulatory Affairs

101.708-24 – including *Taq* polymerase, IFU-01  
101.708-24u – without *Taq* polymerase, IFU-02

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Lot No.: **70S**

Lot-specific information

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