

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.: **96N**

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:** 96N

**Expiry date:** 2014-December-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. 96N.**

### **CHANGES COMPARED TO THE PREVIOUS OLERUP SSP<sup>®</sup> HLA-A-B-DR-DQ SSP COMBI TRAY LOT (46N)**

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. 46N**).

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

Well	5'-primer	3'-primer	rationale
9	-	-	Exchanged positive control primer pair.
13	Modified	-	Improved yield of HLA-specific PCR product.

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. 46N**).

The **HLA-B low resolution** primer set is unchanged compared to the previous lot.

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The **HLA-DR low resolution** specificity and interpretation tables have been updated for the HLA-DRB alleles described since the previous *Olerup* SSP<sup>®</sup> HLA-A-B-DR-DQ SSP Combi Tray lot was made (**Lot No. 46N**).

The **DR low resolution** primer set is unchanged compared to the previous lot.

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. 46N**).

The **DQ low resolution** primer set is unchanged compared to the previous lot.

Change in revision R01 compared to R00:

1. The HLA-A\*33:48 allele is amplified by primer mix 13. This has been corrected in the specificity and interpretation tables.

Change in revision R02 compared to R01:

1. Primer mix 39 does not amplify the B\*15:101 allele. This has been corrected in the Specificity and Interpretation tables.

Change in revision R03 compared to R02:

1. The HLA-A\*03:01:03, 03:09, 03:23:01, 03:89, 03:108, 11:06, 11:18, 11:121, 24:28, 24:89, 26:03:01-26:03:02, 26:06, 26:07:02, 26:21, 26:30, 30:13, 30:16, 30:44, 30:46, 68:05, 68:15, 68:20 and 68:30 alleles are weakly amplified by primer mix 2. This has been corrected in the Specificity and Interpretation Tables.

2. The DR serology has been corrected 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>
	5'-CAC <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-Tgg <sup>3'</sup>
<b>3'-primer<sup>2</sup></b>	<b>231</b>	<b>2<sup>nd</sup> I</b>	<b>507</b>	<b>59</b>	<b>58</b>	<b>57</b>
	5'-TgC <sup>3'</sup>	5'-AAA <sup>3'</sup>	5'-TTg <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-CTC <sup>3'</sup>
<b>A*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>B*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>C*</b>	<b>+</b>	<b>+</b>	<b>+</b>			
<b>DRB1</b>				<b>+</b>	<b>+</b>	
<b>DRB3</b>				<b>+</b>	<b>+</b>	
<b>DRB5</b>				<b>+</b>		
<b>DQB1</b>					<b>+</b>	
<b>DPB1</b>						<b>+</b>

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

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

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## PRODUCT DESCRIPTION

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

#### CONTENT

The primer set contains 5'- and 3'-primers for grouping the HLA-A\*01:01 to A\*80:02 alleles into the corresponding serological groups A1 to A80.

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

The primer set contains 5'- and 3'-primers for grouping the DRB1\*01:01 to DRB1\*10:04 alleles into the corresponding serological groups DR1 to DR18 as well as primer pairs for recognizing the DRB3, DRB4 and DRB5 groups of alleles.

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. ‘96N’.

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 5 will amplify the B\*18:27 allele. Thus, the interpretation of HLA-A low resolution is only influenced by this HLA-B allele 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 HLA-C\*03:05, 03:25, 03:27 and 03:143 alleles will be amplified by primer mix 24, the C\*01:30 allele 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\*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 mix 37, the C\*15:51 allele will be amplified by primer mix 41, the C\*03:129 allele will be amplified by primer mix 45, the C\*15:25 allele will be amplified by primer mix 48, the C\*15:39 allele will be amplified by primer mix 49, the C\*15:02:04 allele will be amplified by primer mix 58, the C\*03:12, 03:19 and 03:102 alleles will be amplified by primer mix 59, 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 HLA-A and HLA-C alleles and not by 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\*80:02**, recognized by the HLA Nomenclature Committee in April 2012<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 2012<sup>1</sup> will be amplified by the primers in the HLA-B low 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 10:04, DRB3\*01:02:01 to DRB3\*03:03, DRB4\*01:01:01:01 to DRB4\*01:08, DRB5\*01:01:01 to DRB5\*02:05**, recognized by the HLA Nomenclature Committee in April 2012<sup>1</sup> will be amplified by the primers in the DR low resolution primer set,

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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 05:14, DQB1\*06:01:01 to 06:49, DQB1\*02:01:01 to 02:06, DQB1\*03:01:01:01 to 03:40 and DQB1\*04:01:01 to 04:08**, recognized by the HLA Nomenclature Committee in April 2012<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 2012-April-12, release 3.8.0, [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 and 03:142 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\*23:14 and the A\*24:05, 24:13:02, 24:24 and 24:199 alleles will give rise to identical amplification patterns. These alleles can be separated by the respective high resolution SSP primer sets.

<sup>3</sup>The B\*08:26, 08:50, 08:62 and 08:85 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 and 13:35 and the B\*44:135 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*14:08 and the B\*39:25N, 39:30, 39:32-39:34, 39:43, 39:47 and 39:50 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 the B\*35:09:01-35:09:03, 35:18, 35:31-35:32:02, 35:37, 35:53N, 35:64, 35:68:01-35:68:02, 35:75, 35:88, 35:99, 35:118-35:119, 35:127, 35:151 and 35:174 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

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

The B\*51:104 and 51:118N 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\*54:01:02 and the B\*55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48, 55:50 and 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 and 55:49 and the B\*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.

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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 and 57:52-57:57 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 and 13:55 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The DRB1\*08:31, 08:41 and DRB1\*11:67 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets. The DRB1\*13:13 and 13:119 and the DRB1\*14:84 and 14:116 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

<sup>6</sup>The serological split of the DQB1\*05:05-05:14, DQB1\*06:06 to 06:07 alleles, the DQB1\*06:10, 06:13, 06:15-06:24 and 06:27 to 06:49, the DQB1\*02:04-02:06, the DQB1\*03:07-03:09 and 03:11-03:40 alleles and the DQB1:04:0301-04:08 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>7,8</sup></b>	120, 140, 225 bp	<b>800 bp</b>	A1, A36	*01:01:01:01-01:04N, 01:06-01:33, 01:35-01:109, 03:18, 03:135, 11:94, 11:112, 36:01-36:05
<b>2<sup>8</sup></b>	210, 255, 365, 415 bp	<b>800 bp</b>	A2,A19, A28, A203, A210, A3, A11, A9, A26, A30, A68	*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21-02:22:02, 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, 02:130-02:358, 03:01:03 <sup>w</sup> , 03:09 <sup>w</sup> , 03:23:01 <sup>w</sup> , 03:89 <sup>w</sup> , 03:108 <sup>w</sup> , 11:06 <sup>w</sup> , 11:18 <sup>w</sup> , 11:121 <sup>w</sup> , 24:28 <sup>w</sup> , 24:89 <sup>w</sup> , 26:03:01-26:03:02 <sup>w</sup> , 26:06 <sup>w</sup> , 26:07:02 <sup>w</sup> , 26:21 <sup>w</sup> , 26:30 <sup>w</sup> , 30:13 <sup>w</sup> , 30:16 <sup>w</sup> , 30:44 <sup>w</sup> , 30:46 <sup>w</sup> , 68:05 <sup>w</sup> , 68:15 <sup>w</sup> , 68:20 <sup>w</sup> , 68:30 <sup>w</sup>
<b>3<sup>10</sup></b>	205, 235 bp	1070 bp	A1, A3, A11, A32, A34, A36	*01:12, 01:19, 01:21, 02:338, 03:01:01:01-03:17, 03:19-03:74, 03:76-03:94, 03:96-03:134, 03:136-03:143, 11:25, 11:60, 24:92, 32:04, 34:02:01, 34:02:02 <sup>w</sup> , 34:02:03-34:04, 34:07-34:09, 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, 01:01:24-01:01:43, 01:01:44 <sup>w</sup> -01:01:45 <sup>w</sup> , 01:02-01:04N, 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, 01:100-01:104, 01:105 <sup>w</sup> -01:109 <sup>w</sup> , 02:78, 02:169, 03:12, 03:18, 03:88, 03:135, 11:01:01-11:27, 11:29-11:52Q, 11:54-11:122, 26:19, 26:72, 30:08, 36:04, 68:13, 68:66
<b>5<sup>11</sup></b>	135, 175, 210 bp	<b>800 bp</b>	A2, A23, A24, A29, A80	*23:01:01-23:51, 24:05, 24:13:02, 24:24, 24:199, 29:07, 31:29, 80:01-80:02, <b>B*18:27</b>
<b>6<sup>9</sup></b>	175, 200 bp	1070 bp	A2, A23, A24, A26, A33	*02:17:01 <sup>w</sup> -02:17:02 <sup>w</sup> , 23:14, 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, 24:189-24:199, 26:16, 33:19, 68:45
<b>7</b>	165, 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, 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, 26:73-26:74, 29:28, 32:15, 33:51, 34:01:01-34:09, 66:01-66:16, 68:01:01:01-68:88, 69:01

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<b>8<sup>7,13</sup></b>	75 bp	<b>800 bp</b>	A25, A32	*25:01:01-25:16, 32:01:01-32:02, 32:04, 32:06-32:37, 32:39-32:41
<b>9<sup>7</sup></b>	85 bp	1070 bp	A2, A26, A33	*01:51, 01:83, 02:146, 26:01:01-26:02, 26:04, 26:07:01-26:18, 26:20, 26:22-26:29, 26:31-26:43:02, 26:45-26:71N, 26:73-26:74, 33:13, 33:48, 68:84
<b>10<sup>7,8</sup></b>	80, 175, 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, 11:54-11:122, 24:19, 24:44, 26:03:01-26:03:02, 26:06, 26:21, 31:03, 34:01:01-34:08, 66:01, 66:04-66:11, 66:13-66:15, 80:02
<b>11<sup>7</sup></b>	125, 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, 34:01:01-34:09, 43:01, 66:02-66:03, 66:16
<b>12</b>	175, 225 bp	1070 bp	A1, A2, A3, A25, A26, A34, A43, A66	*01:13, 02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:103, 02:135, 03:01:01:01-03:01:22, 03:01:24-03:07, 03:09-03:11N, 03:13-03:31, 03:33-03:35, 03:37-03:40, 03:42-03:56, 03:58, 03:60-03:71, 03:73-03:87, 03:90-03:106, 03:109-03:110, 03:112-03:141, 03:143, 25:01:01-25:05, 25:07-25:16, 26:01:01-26:01:20, 26:01:22-26:01:24, 26:02 <sup>w</sup> , 26:03:01-26:03:02, 26:05-26:08, 26:10-26:33, 26:35-26:43:02, 26:45-26:72, 26:74, 30:55, 34:08, 43:01, 66:01, 66:04-66:15, 68:71, 74:13
<b>13<sup>7</sup></b>	100, 200, 240 bp	<b>800 bp</b>	A29, A33	*02:237, 02:309, 03:95, 26:19, 26:22, 29:01:01:01-29:35, 30:57, 33:13, 33:48, 66:09
<b>14<sup>7,8,9,12</sup></b>	90, 135, 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, 30:22-30:63, 31:35
<b>15</b>	240, 370, 395 bp	1070 bp	A31, A32	*02:237, 03:95, 29:14, 31:01:02-31:62, 32:05, 33:53
<b>16</b>	140, 180 bp	1070 bp	A29, A32	*01:95, 03:43, 03:82, 29:13, 31:35, 32:01:01-32:03, 32:05-32:41, 74:07
<b>17</b>	200 bp	1070 bp	A33, A68	*02:243, 33:01:01-33:01:06, 33:03:01-33:50, 33:52-33:59, 68:29
<b>18</b>	160, 200 bp	<b>800 bp</b>	A74	*29:19, 74:01-74:15
<b>19<sup>11</sup></b>	220, 245 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, 68:01:01:01-68:88
<b>20</b>	240, 375 bp	<b>800 bp</b>	A2, A24, A26, A68, A69	*02:55, 02:243, 24:82, 26:22, 33:22, 66:09, 68:29, 69:01
<b>21<sup>7,11</sup></b>	75, 160, 240, 495 bp	<b>800 bp</b>	A2, A26, A68, A80	*02:55, 03:41, 03:63, 03:75, 03:88, 24:18, 26:03:01-26:03:02, 26:05-26:06, 26:21, 26:30, 33:24, 36:02, 68:05, 68:15, 68:20, 80:01

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#### Lot-specific information

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

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

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

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

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an 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, 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.

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

<sup>5</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.

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 and 03:142 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\*23:14 and the A\*24:05, 24:13:02, 24:24 and 24:199 alleles will give rise to identical amplification patterns. These alleles can be separated by the respective high resolution SSP primer sets.

<sup>6</sup>Primer mix 5 will amplify the B\*18:27 allele.

<sup>7</sup>Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

<sup>8</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>9</sup>Primer mixes 6 and 14 may yield less specific PCR product than the other HLA-A low primer mixes.

<sup>10</sup>Primer mix 3 may faintly amplify the A\*30:04, 30:06, 30:17 and 30:29 alleles.

<sup>11</sup>Primer mix 5, 19 and 21 may give rise to primer oligomer formation.

<sup>12</sup>Primer mix 14 may have tendencies of unspecific amplifications.

<sup>13</sup>Primer mix 8 may weakly amplify the A\*34 alleles.

‘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, 07:140-07:154, 08:01:01-08:05, 08:07-08:08N, 08:10-08:11, 08:13-08:15, 08:17-08:83, 08:85-08:88, 35:66, 35:87, 37:07, 40:15-40:16, 40:30-40:32, 40:34, 40:45, 40:59, 40:80, 40:98, 40:137, 40:160, 41:02:01-41:02:04, 41:04, 41:10-41:11, 41:13, 41:18-41:19, 42:01:01-42:02, 42:05:01-42:07, 42:09-42:13, 42:15-42:16, 44:150, 48:01:01-48:01:03, 48:05-48:12, 48:14-48:20, 48:22, 48:27, 53:15, 81:01-81:05
<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-08:88, 15:142, 15:180, 44:49, 51:68
<b>24</b>	140, 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, 13:06-13:08Q, 13:10-13:23, 13:25-13:38, 13:40-13:54, 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, 35:05:01-35:05:02, 35:16-35:17, 35:22, 35:30, 35:51, 35:58, 35:72, 35:89, 35:97, 35:113-35:114, 35:125, 35:164, 35:199, 40:05, 40:71, 40:174, 44:08 <sup>w</sup> , 44:54, 44:57 <sup>w</sup> , 44:60, 44:106, 44:110, 44:135, 46:12, 51:64, 53:14, 55:51, 58:18, <b>C*03:05, C*03:25, C*03:27, C*03:143</b>
<b>25<sup>7,8</sup></b>	130, 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, 13:25-13:54, 14:01:01-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:32, 15:46, 15:53, 15:106, 15:212, 18:44, 35:46-35:47, 35:63, 35:154, 40:01:01-40:01:24, 40:07, 40:10:01-40:10:02, 40:14:01-40:16, 40:22N-40:23, 40:25, 40:30-40:34, 40:36, 40:38, 40:42-40:43, 40:45, 40:47-40:49, 40:51-40:55, 40:58-40:63, 40:65-40:67, 40:69, 40:72:01-40:73, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:110, 40:112-40:114, 40:116-40:118N, 40:121, 40:123-40:126, 40:128-40:130, 40:132, 40:134-40:136, 40:139-40:141, 40:146-40:147, 40:150-40:156, 40:158, 40:160, 40:163-40:164, 40:166, 40:168, 40:171-40:172, 40:175, 40:178-40:179, 40:182-40:183,

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<b>26<sup>8</sup></b>	185, 235 bp	<b>800 bp</b>	14, 16, 27, 37, 38, 39, 47, 64, 67	*07:02:32, 14:01:01-14:01:02, 14:07N-14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 27:01-27:05:15, 27:05:17-27:06, 27:08-27:10, 27:12-27:13, 27:16-27:18, 27:20, 27:23, 27:26-27:27, 27:29, 27:31, 27:35-27:37, 27:39-27:42, 27:44-27:46, 27:48-27:61, 27:64N-27:69, 27:72-27:75, 27:77-27:80, 27:82-27:89, 37:02, 38:01:01-38:02:02, 38:03, 38:07-38:24, 38:26-38:32, 38:34N-38:40, 39:01:01:01-39:01:01:02L, 39:01:03-39:01:08, 39:01:10-39:02:01, 39:03, 39:05:01-39:09, 39:11, 39:14-39:15, 39:18, 39:19:02, 39:22, 39:24:01-39:39:01, 39:40N-39:44, 39:46-39:48, 39:50-39:62, 39:64-39:71, 39:73, 47:04-47:05, 48:21, 48:26, 67:01:01, 67:03
<b>27</b>	190 bp	<b>800 bp</b>	14, 35, 38, 39, 65	*07:28, 08:87, 14:02:01-14:02:02, 14:02:04-14:02:05, 14:03-14:06:02, 14:09, 14:11, 14:13, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29-14:31, 15:77, 15:189, 15:233, 35:26, 38:05, 38:33, 39:04, 44:16, 44:37:01-44:37:02, 44:64:01-44:64:02, 44:91, 44:132, 44:150, 52:26, 57:04, <b>A*23:31, A*24:106, C*07:231, C*16:10</b>
<b>28</b>	290 bp	1070 bp	15, 62, 63, 75, 76, 77, 46	*15:01:01:01-15:01:03, 15:01:06-15:02:05, 15:03:03-15:08, 15:10:02-15:11:03, 15:11:05-15:15, 15:17:01:01-15:17:02, 15:19-15:21, 15:24-15:28, 15:30-15:36, 15:38:01-15:40, 15:42-15:46, 15:48, 15:50, 15:55-15:58, 15:60, 15:63, 15:65-15:66, 15:70-15:71, 15:73, 15:75-15:79N, 15:81-15:89, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:107, 15:109-15:113, 15:116-15:118, 15:120-15:122, 15:125-15:126, 15:128-15:129, 15:135-15:150, 15:152, 15:154-15:155, 15:157, 15:159-15:160, 15:162-15:172, 15:174-15:175, 15:177-15:179, 15:181N-15:185, 15:187-15:196, 15:199, 15:201-15:209N, 15:211, 15:213-15:219, 15:223-15:225, 15:227-15:228, 15:230-15:234, 15:236-15:237, 15:239-15:241, 15:244, 46:01:01-46:30, <b>C*07:02:30, C*08:16:02</b>
<b>29</b>	165, 220, 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-08:12:03, 08:15-08:19N, 08:21-08:24, 08:26-08:27, 08:29-08:36, 08:38-08:39, 08:41-08:48, 08:50-08:54, 08:56-08:69, 08:71-08:73, 08:75-08:76, 08:78, 08:80-08:86N, 08:88, 13:46, 15:03:01-15:03:03, 15:09-15:10:02, 15:18:01-15:18:04, 15:23, 15:29, 15:37, 15:46-15:47:02, 15:49, 15:51-15:54, 15:61-15:62, 15:64, 15:69,

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<b>30<sup>8,9,11</sup></b>	165, 190, 390 bp	1070 bp	15, 35, 40, 44, 51, 52, 56, 58, 62, 63, 70, 78	*15:01:02, 15:09, 15:16:01-15:17:02, 15:67, 15:95, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230, 15:243, 35:01:10, 35:04:02, 40:26, 40:28, 44:62, 49:18, 50:14, 51:01:01-51:01:03, 51:01:05-51:02:03, 51:02:05-51:09:02, 51:11N-51:12, 51:13:02-51:14, 51:16-51:23, 51:24:03-51:24:04, 51:26-51:33, 51:37-51:41N, 51:43-51:44N, 51:46, 51:48-51:61, 51:63-51:80, 51:82-51:91, 51:94-51:98N, 51:100-51:130, 52:01:01:01-52:01:04, 52:01:06-52:13, 52:15-52:24, 52:26-52:29, 56:05:01-56:06, 56:21, 58:08:01-58:08:02, 78:01:01-78:07
<b>31</b>	180 bp	<b>800 bp</b>	13, 15, 40, 55, 62, 70, 71, 72, 75	*07:78, 13:01:01-13:02:12, 13:07N-13:09, 13:11, 13:14-13:20, 13:22:01-13:23, 13:25, 13:27-13:34, 13:36-13:45, 13:47, 13:49N-13:50, 13:52, 13:54, 40:48, 45:10, 49:07, 54:26, 55:09, 55:22, 55:24
<b>32<sup>6</sup></b>	105, 195 bp	1070 bp	7, 8, 15, 27, 38, 39, 40, 44, 45, 48, 55, 72	*07:27, 07:50, 08:04, 08:17, 08:54, 15:03:01-15:03:03, 15:47:01-15:47:02, 15:49, 15:54, 15:61-15:62, 15:64, 15:68-15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242, 18:37, 27:18, 27:29, 37:28, 38:03, 39:02:01-39:02:02, 39:08, 39:13:01-39:13:02, 39:23, 39:39:01-39:39:02, 39:49, 40:12, 40:46, 40:93, 42:11, 44:10, 44:15, 44:18, 44:40, 44:44, 44:130, 44:140, 45:01, 45:05-45:07, 45:11-45:14, 48:01:01-48:05, 48:07-48:27, 49:20, 50:02, 52:16, 55:18, 82:01-82:03
<b>33</b>	195 bp	1070 bp	15, 35, 37, 38, 44, 45, 58, 76	*15:12, 15:14, 15:19, 15:91, 15:131, 15:161, 18:54, 18:56, 35:45, 35:71, 37:01:01-37:09, 37:12-37:13, 37:15-37:21, 37:23-37:28, 37:30N-37:33N, 38:17, 44:17, 44:43:01-44:43:02, 44:144, 45:09, 46:17, 53:22, 58:07, <b>A*24:174</b>
<b>34<sup>6</sup></b>	105, 395, 435 bp	1070 bp	7, 15, 41, 42, 59, 62, 63, 77	*07:04, 07:25, 07:146, 15:09-15:10:02, 15:13:01-15:13:02, 15:16:01-15:18:04, 15:21, 15:23-15:24, 15:37, 15:44, 15:51-15:52, 15:66-15:67, 15:72, 15:80, 15:87, 15:90, 15:93, 15:95, 15:99, 15:108, 15:114-15:115, 15:119, 15:124, 15:133-15:134, 15:153, 15:157, 15:161-15:162, 15:168,

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<b>36<sup>6</sup></b>	80 bp	1070 bp	27, 40, 44	*07:73, 08:88, 27:01-27:21, 27:23-27:51, 27:53-27:66N, 27:68-27:74, 27:76-27:89, 38:22, 40:46, 40:93, 44:40, 44:44, 44:130
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<b>57</b> <sup>8,9,12</sup>	160, 330 bp	1070 bp	15, 37, 44, 54	*08:87, 44:02:01:01-44:02:24, 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, 44:41:01-44:41:02, 44:44, 44:48-44:49, 44:52N-44:53, 44:55, 44:59, 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, 44:126-44:127, 44:131-44:132, 44:137-44:138Q, 44:142Q, 44:145, 44:148-44:149N, 44:151-44:152, 54:01:01, 54:02-54:26, 83:01
<b>58</b>	180, 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, 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, 55:52-55:56, 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-49:20, 50:01:01-50:02, 50:04-50:08, 50:10-50:13, 50:15-50:16, 51:15, 51:62, 51:106, 52:25, 54:03, 56:01:01-56:02, 56:04, 56:07-56:08, 56:13-56:14, 56:16-56:17, 56:20:01-56:20:02, 56:24-56:30, 56:33-56:35, 59:04, 82:01-82:03, <b>C*03:12, C*03:19, C*03:102</b>

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<b>60<sup>6,10</sup></b>	90, 240 bp	<b>800 bp</b>	55, 57	*55:14, 57:01:01-57:44, 57:46-57:50, 57:52-57:57, 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, 18:67-18:71, 35:01:01:01-35:08:04, 35:09:01-35:09:03, 35:11:01-35:12:03, 35:14:01-35:15, 35:17-35:18, 35:20:01-35:24:02, 35:27, 35:29:01-35:45, 35:48, 35:50-35:62, 35:64-35:68:02, 35:70-35:72, 35:74-35:75, 35:76 <sup>w</sup> , 35:77-35:79, 35:81-35:153, 35:155-35:185, 35:187-35:190, 35:192-35:197, 35:199-35:200, 37:08, 38:06-38:07, 39:19:01-39:19:02, 44:06, 51:01:01-51:24:04, 51:26-51:46, 51:48-51:103, 51:105-51:111, 51:113-51:117, 51:119-51:131, 53:01:01-53:16, 53:18-53:27, 56:06 <sup>w</sup> , 78:01:01-78:04, 78:07
<b>62<sup>6,8,10</sup></b>	115, 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, 15:01:18-15:01:28, 15:04, 15:07:01-15:08, 15:11:01-15:12, 15:14-15:15, 15:19, 15:24, 15:26N-15:28, 15:30, 15:32, 15:34-15:35, 15:38:01-15:38:02, 15:43, 15:45-15:46, 15:50, 15:53-15:54, 15:56-15:58, 15:60, 15:63, 15:66, 15:68, 15:70-15:71, 15:73, 15:75-15:77, 15:79N, 15:81-15:82, 15:85, 15:87, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:105, 15:109-15:111N, 15:113, 15:117-15:118, 15:120, 15:122, 15:125-15:126, 15:128-15:129, 15:135, 15:137, 15:140, 15:142-15:149N, 15:152, 15:154, 15:157, 15:159-15:160, 15:163-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:180-15:184, 15:187, 15:189-15:193, 15:201-15:203, 15:205-15:207, 15:209N, 15:211-15:212, 15:215, 15:217, 15:225, 15:227-15:228, 15:231-15:234, 15:236, 15:239, 15:241, 15:244, 18:19, 27:25, 27:75, 35:14:01-35:14:02, 35:43-35:44, 35:62, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135, 35:163, 35:185, 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, 46:27-46:30, 51:61, 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<sup>15</sup></b>	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 specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

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

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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 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, 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>Nucleotide sequence information is available for only exons 2 and 3 of many HLA Class I alleles and for only exon 2 of many HLA Class II alleles and not for other exons or for the introns of these alleles. We assume that unknown sequences in these exons and in the introns are conserved within loci and within allelic groups. The B\*08:26, 08:50, 08:62 and 08:85 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 and 13:35 and the B\*44:135 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

The B\*14:08 and the B\*39:25N, 39:30, 39:32-39:34, 39:43, 39:47 and 39:50 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 the B\*35:09:01-35:09:03, 35:18, 35:31-35:32:02, 35:37, 35:53N, 35:64, 35:68:01-35:68:02, 35:75, 35:88, 35:99, 35:118-35:119, 35:127, 35:151 and 35:174 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

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

The B\*51:104 and 51:118N 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\*54:01:02 and the B\*55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48, 55:50 and 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 and 55:49 and the B\*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 and 57:52-57:57 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>5</sup>The HLA-C\*03:05, 03:25, 03:27 and 03:143 alleles will be amplified by primer mix 24, the C\*01:30 allele 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\*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 mix 37, the C\*15:51 allele will be amplified by primer mix 41, the C\*03:129 allele will be amplified by primer mix 45, the C\*15:25 allele will be amplified by primer mix 48, the C\*15:39 allele will be amplified by primer mix 49, the C\*15:02:04 allele will be amplified by primer mix 58, the C\*03:12, 03:19 and

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03:102 alleles will be amplified by primer mix 59, 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>Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

<sup>7</sup>Primer mix 25 may yield less 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 yield less specific PCR product than the other HLA-B low resolution primer mixes.

<sup>9</sup>Primer mixes 30, 40 and 57 may give rise to nonspecific amplifications, most pronounced in primer mix 30.

<sup>10</sup>Primer mixes 22, 35, 39, 40, 42, 60 and 62 may give rise to a primer oligomer artifact.

<sup>11</sup>The B\*57 and B\*58 alleles might be faintly amplified by primer mix 30.

<sup>12</sup>Primer mix 57 may yield less specific PCR product than the other HLA-B low resolution primer mixes in B\*54 alleles.

<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, 255 bp	<b>515 bp</b>	1	*01:01:01-01:02:08, 01:04-01:38, 01:40N-01:45
<b>66</b>	200 bp	430 bp	103	*01:03, 01:39N, 01:42
<b>67</b>	200, 215 bp	430 bp	15	*15:01:01-01-15:71
<b>68</b>	210 bp	430 bp	16	*16:01:01-16:05:02, 16:07-16:19
<b>69</b> <sup>5,6,11</sup>	120, 220 bp	430 bp	3, 17, 18, 11	*03:01:01-01-03:75, 03:77-03:80, 03:11:02, 11:07, 11:53, 11:103, 11:105, 11:107, 11:125, 15:25
<b>70</b> <sup>5,11</sup>	80, 210 bp	430 bp	3, 17, 11, 13, 14	*03:01:01-01-03:01:19, 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, 03:75-03:80, 03:11:02, 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, 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-13:139, 14:16, 14:19, 14:21, 14:82, 14:95, 14:109
<b>71</b> <sup>5</sup>	85, 210 bp	430 bp	3, 18, 11, 13, 14	*03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74, 11:13:01 <sup>w</sup> -11:13:02 <sup>w</sup> , 11:26, 11:34, 13:15, 13:19, 13:26, 13:44, 13:53, 13:57, 13:85-13:86, 13:104, 14:02-14:03:02, 14:06:01-14:06:02, 14:09, 14:12:01-14:13, 14:17-14:21, 14:24, 14:27, 14:29-14:30, 14:32:01 <sup>w</sup> -14:32:02 <sup>w</sup> , 14:33, 14:40-14:41, 14:47-14:49, 14:51, 14:63, 14:65 <sup>w</sup> , 14:67, 14:77-14:78, 14:80-14:81, 14:83, 14:85, 14:89, 14:94, 14:98, 14:102, 14:106, 14:108- 14:109, 14:115, 14:119, 14:121
<b>72</b> <sup>5,6,7</sup>	100, 175 bp	430 bp	3, 4	*04:01:01-04:107
<b>73</b>	210, 235 bp	430 bp	7, 13, 14	*07:01:01-01-07:01:04, 07:03-07:22, 12:22, 13:17, 13:116, 14:50
<b>74</b> <sup>6</sup>	170, 215, 250 bp	<b>515 bp</b>	8, 12, 14	*08:01:01-08:19, 08:21-08:49, 11:67, 12:04, 12:16, 12:22, 14:11, 14:15, 14:68, 14:93

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Lot No.	Allele	Product	Size	Position	Sequence
<b>75<sup>5,6</sup></b>	90, 135, 180 bp	430 bp	3, 9, 11		*03:08, 03:65, 09:01:02-09:17, 11:07, 11:53, 11:103, 11:105, 11:107, 11:125
<b>76<sup>7</sup></b>	175 bp	430 bp	10		*03:76, 10:01:01-10:04, 11:59, 11:80, 11:83, 11:87, 13:27, 13:41, 13:71, 13:129
<b>77<sup>5,6</sup></b>	100, 170 bp	430 bp	11, 3, 8		*03:08, 03:65, 08:31, 08:41, 11:01:01-11:70, 11:72-11:126
<b>78<sup>5,6,9</sup></b>	85, 105 bp	430 bp	12, 8		*08:32, 12:01:01-12:35
<b>79<sup>8</sup></b>	215 bp	430 bp	6, 8, 11, 13, 14, 1403		*03:76, 08:20-08:21, 11:01:01-11:04:08, 11:06:01-11:06:02, 11:08:01-11:12:02, 11:14:01-11:16, 11:18-11:21, 11:23-11:25, 11:27:01-11:33, 11:35-11:51, 11:54:01-11:54:02, 11:56-11:66, 11:68, 11:70, 11:72-11:81, 11:83-11:88, 11:90-11:97, 11:99-11:102:02, 11:106, 11:108-11:124, 11:126, 13:01:01-13:08, 13:10-13:16, 13:18-13:43, 13:45-13:85, 13:87-13:115, 13:117-13:128, 13:130-13:139, 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, <b>DRB3*02:27</b>
<b>80<sup>6,7,8</sup></b>	195, 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, 11:01:01-11:06:02, 11:09-11:12:02, 11:14:01-11:16, 11:20-11:21, 11:23-11:25, 11:27:01-11:30, 11:32-11:33, 11:35-11:41, 11:43-11:44, 11:46:01-11:51, 11:54:01-11:56, 11:58:01-11:63, 11:65:01-11:70, 11:72, 11:74:01-11:78, 11:80-11:88, 11:90-11:97, 11:99-11:102:02, 11:106, 11:108-11:118, 11:120-11:124, 11:126, 12:02:01-12:02:05, 12:13, 12:15-12:16, 12:18-12:21, 12:23, 12:26-12:27, 12:31N-12:33, 13:01:01-13:02:01, 13:02:03-13:02:05, 13:04-13:05:02, 13:07:01-13:09, 13:11:01-13:11:02, 13:14:01-13:24, 13:26-13:29, 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, 13:138-13:139, 14:15-14:16, 14:22, 14:24-14:25, 14:27, 14:37, 14:53, 14:73, 14:105
<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, 03:70-03:80, 03:11:02, 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, 13:123-13:139, 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,



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				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
<b>82<sup>5</sup></b>	100, 140, 155 bp	430 bp	14, 4, 8, 13	*04:62, 04:69, 04:73, 04:105, 08:08, 11:69, 11:82, 13:45, 14:01:01-14:01:02, 14:04, 14:07:01-14:07:02, 14:10, 14:16, 14:22, 14:25-14:26, 14:28, 14:31-14:32:02, 14:35, 14:37-14:39, 14:49-14:50, 14:53-14:54:01, 14:55, 14:57-14:58, 14:60-14:62, 14:68-14:71, 14:73-14:76, 14:79, 14:82, 14:86-14:88, 14:90, 14:93, 14:99, 14:101, 14:104-14:105, 14:107, 14:110-14:114, 14:117-14:120, 14:122, 14:124-14:125, <b>DRB4*01:03:01:02N</b>
<b>83<sup>5,6,10</sup></b>	110, 135, 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, 09:04-09:17, 11:13:01-11:13:02, 11:17, 11:52, 13:43, 14:01:01-14:02, 14:04-14:11, 14:13-14:14, 14:16-14:18, 14:19 <sup>w</sup> , 14:20, 14:21 <sup>w</sup> , 14:22-14:23:03, 14:26, 14:28-14:36, 14:38-14:39, 14:41, 14:43-14:52, 14:54:01-14:57, 14:59-14:62, 14:64-14:65, 14:68, 14:70-14:76, 14:79-14:83, 14:86-14:88, 14:90-14:97, 14:99-14:101, 14:103-14:108, 14:109 <sup>w</sup> , 14:110-14:114, 14:117-14:125, 15:27, 15:34, 15:66
<b>84<sup>5,6</sup></b>	110, 175, 225 bp	430 bp	14, 3, 8, 11, 13, 15, 16	*03:10, 08:09, 08:20-08:21, 08:32, 08:35, 11:13:01-11:13:02, 11:17, 11:23, 11:25, 11:31, 11:45, 11:52, 11:55, 11:64, 11:89, 11:96, 11:119, 13:13, 13:18, 13:43, 13:45, 13:47, 13:55, 13:119, 14:01:01-14:01:03, 14:03:01-14:05:03, 14:07:01-14:08, 14:10-14:12:02, 14:14-14:16, 14:18, 14:22-14:23:03, 14:25-14:28, 14:31-14:32:02, 14:34-14:36, 14:38-14:40, 14:42-14:45, 14:49-14:50, 14:53-14:65, 14:67-14:79, 14:81-14:82, 14:84-14:93, 14:95-14:97, 14:99-14:105, 14:107, 14:110-14:120, 14:122-14:125, 15:21 <sup>w</sup> , 16:04 <sup>w</sup> , 16:18 <sup>w</sup>
<b>85<sup>6,11</sup></b>	160, 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<sup>7,12</sup></b>	215 bp	430 bp	53	<b>DRB4*01:01-01:08</b>
<b>87</b>	175 bp	430 bp	51	<b>DRB5*01:01:01-01:14, DRB5*02:02-02:05</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 specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich

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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 DRB alleles only partial second exon nucleotide sequences are available. In these instances it is not known whether some of the primers of the SSP set are completely matched with the target sequences or not. We assume that unknown sequences in the first hyperpolymorphic region of the second exon of DRB alleles are conserved within allelic groups and that unknown sequences of codons 87 to 92 are identical with the DRB1\*01:01 consensus sequence.

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

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

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

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

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

<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, 80 and 86 may give rise to primer oligomer formation.

<sup>8</sup>Primer mixes 79 and 80 may yield less specific PCR product than the other DR low resolution primer mixes.

<sup>9</sup>Primer mix 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 the primer pair in well No. 86, whereas the DRB4\*02:01N and DRB4\*03:01N null alleles are not amplified by this primer pair.

‘w’, might be weakly amplified.

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## 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	*05:01:01:01-05:14
<b>89<sup>5</sup></b>	220, 270 bp	430 bp	1, 5, 6	*06:01:01-06:49
<b>90</b>	210 bp	430 bp	2	*02:01:01-02:06
<b>91<sup>6</sup></b>	220 bp	<b>515 bp</b>	3, 7	*03:01:01:01-03:01:06, 03:04, 03:09-03:10, 03:13-03:14, 03:16, 03:19, 03:21-03:22, 03:24, 03:27-03:29, 03:35-03:36
<b>92<sup>6</sup></b>	130 bp	<b>515 bp</b>	6, 8	*03:02:01-03:02:05, 03:05:01-03:05:04, 03:07-03:08, 03:11, 03:18, 03:32, 03:37, 06:29
<b>93<sup>5,6</sup></b>	135 bp	<b>515 bp</b>	2, 3, 9	*02:03, 03:03:02:01-03:03:04, 03:06, 03:12, 03:15, 03:20, 03:25-03:26, 03:30-03:31, 03:33-03:34, 03:38-03:40, 04:03:01-04:03:02
<b>94<sup>6</sup></b>	145, 185 bp	<b>515 bp</b>	3, 7, 8, 9	*03:01:01:01-03:40
<b>95<sup>6</sup></b>	210, 245 bp	430 bp	4	*04:01:01-04:08
<b>96<sup>7</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 specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

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

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

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

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an 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 88 contains the primer pair giving rise to the longer, 515 bp, internal positive control band. In addition, wells number 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.

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<sup>3</sup>The serological split of the DQB1\*05:05, DQB1\*06:06 to 06:07 alleles, the DQB1\*06:10, 06:13, 06:15-06:24 and 06:27 to 06:44, the DQB1\*02:04-02:06, the DQB1\*03:07-03:09 and 03:11- 03:38 alleles and the DQB1:04:0301-04:08 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 only partial second exon nucleotide sequences are 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 the 5'- and 3'-ends of the second exon of the DQB1 gene are conserved within allelic groups.

<sup>5</sup>Primer mixes 89 and 93 may give rise to primer dimer formation

<sup>6</sup>Primer mixes 91, 92, 93, 94 and 95 may yield somewhat less intense specific PCR fragments than the other DQ low resolution primer mixes.

<sup>7</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*80:02 alleles																						
		Well <sup>10</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.		120	210	205	190	135	175	165	75	85	80	125	175	100	90	240	140	200	160	220	240	75
PCR product(s)		145	255	235		175	205	200			175	185	225	200	135	370	180		200	245	375	160
		225	365			210					500			240	205	395						240
			415																			495
Length of int.		800	800	1070	800	800	1070	800	800	1070	1070	800	1070	800	1070	1070	1070	1070	800	800	800	800
pos. control <sup>1</sup>																						
5'-primer(s) <sup>2</sup>		98	48	363	98	176	98	98	266	257	301	103	98	98	203	41	180	98	180	78	28	176
		5'-CTT <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-ATA <sup>3'</sup>	5'-CTA <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-CTA <sup>3'</sup>	5'-ACg <sup>3'</sup>	5'-Cgg <sup>3'</sup>	5'-Cgg <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-CTT <sup>3'</sup>	5'-CAC <sup>3'</sup>	5'-gAA <sup>3'</sup>	5'-CTT <sup>3'</sup>	5'-TTT <sup>3'</sup>	5'-CAC <sup>3'</sup>	5'-TTT <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-TCg <sup>3'</sup>	5'-gCA <sup>3'</sup>
		103	78		413	368	368	102	266	259	302	423	423	238	362	355	203			106	261	261
		5'-CCT <sup>3'</sup>	5'-TCT <sup>3'</sup>		5'-CCg <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-ACA <sup>3'</sup>	5'-ACg <sup>3'</sup>	5'-CgA <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-AgA <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-CCg <sup>3'</sup>	5'-gAA <sup>3'</sup>	5'-CAC <sup>3'</sup>		5'-CCA <sup>3'</sup>	5'-AAC <sup>3'</sup>	5'-AAC <sup>3'</sup>
		123	106					413	266	261	385			355	363		418			2 <sup>nd</sup>		341
		5'-AgT <sup>3'</sup>	5'-CCA <sup>3'</sup>					5'-CCg <sup>3'</sup>	5'-Agg <sup>3'</sup>	5'-AAC <sup>3'</sup>	5'-ggC <sup>3'</sup>			5'-CCg <sup>3'</sup>	5'-ATA <sup>3'</sup>		5'-AgC <sup>3'</sup>			5'-CCT <sup>3'</sup>		5'-ggA <sup>3'</sup>
		363													363							355
		5'-ATA <sup>3'</sup>													5'-ATA <sup>3'</sup>							5'-CCC <sup>3'</sup>
															5'-TAC <sup>3'</sup>							
3'-primer(s) <sup>3</sup>		203	240	527	256	270	259	259	302	299	341	257	282	257	299	238	290	256	299	265	97	292
		5'-TCT <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-CTg <sup>3'</sup>	5'-ACA <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-TCg <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-CAA <sup>3'</sup>	5'-CCC <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-CCC <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-gTg <sup>3'</sup>
		545	292	527	559	502	502	259			521	506	282	299	411	243	317	256	299	282	355	292
		5'-AgA <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-CCg <sup>3'</sup>	5'-CTg <sup>3'</sup>	5'-CTT <sup>3'</sup>	5'-gTT <sup>3'</sup>			5'-ggg <sup>3'</sup>	5'-TgT <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-TCg <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-gTT <sup>3'</sup>
				555		538	539	538				559	559	418	526	265	555	259	341	282		299
				5'-gCA <sup>3'</sup>		5'-CAG <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-CCA <sup>3'</sup>				5'-CTC <sup>3'</sup>	5'-CCg <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-CCC <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-gAC <sup>3'</sup>		299
				555								559		555		555		259		502		299
				5'-CCA <sup>3'</sup>								5'-CgT <sup>3'</sup>		5'-CCA <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-gTT <sup>3'</sup>			5'-CTT <sup>3'</sup>		555
																				506		
																				5'-TgT <sup>3'</sup>		
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21



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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
HLA-A allele <sup>4</sup>	ser <sup>5</sup>																					
*01:01:01:01-01:01:22, 01:01:24-01:01:43, 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- 01:50, 01:52N-01:78, 01:80- 01:82, 01:84-01:94, 01:96- 01:98, 01:100-01:104, 36:04 <sup>6</sup>	A1, A36, Null, -	1			4																	
*01:01:23, 01:08, 01:14- 01:15N, 01:30, 01:79, 01:99, 36:01, 36:03, 36:05 <sup>6</sup>	A1, A36, Nu ll, -	1																				
*01:01:44-01:01:45, 01:105- 01:109	-	1			w																	
*01:12, 01:19	A1, -	1		3																		
*01:13	-	1			4						10		12		14							
*01:21	-	1		3	4																	
*01:28	-	1			4						10				14							
*01:51	-	1			4			7		9												
*01:83	-	1			4					9												
*01:95	-	1			4												16					
*02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21- 02:16, 02:18-02:22:02, 02:24:01-02:33, 02:36- 02:45, 02:47, 02:49-02:54, 02:57-02:61, 02:63-02:69, 02:71-02:77, 02:79:01- 02:97:02, 02:99, 02:101:01- 02:102, 02:104-02:128, 02:130-02:134, 02:136- 02:145, 02:147-02:168, 02:170-02:236, 02:238- 02:242, 02:244-02:308, 02:310-02:337, 02:339- 02:358	A2, 19, A203, A210, Low A2, 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	
*02:35:02	A2												12								19	
*02:46, 02:70	A2		2																		19	
*02:48, 02:129	-																				19	
*02:55	-		2					7														20 21
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
HLA-A allele <sup>4</sup>	ser <sup>5</sup>																						
*02:78	A2		w		4																19		
*02:135	-		2										12										
*02:146	-		2							9													
*02:169	-		2		4																		
*02:237	-		2											13		15							
*02:243	-		2															17				20	
*02:309	-		2									11		13									
*02:338	-		2	3																			
*03:01:01:01-03:01:02, 03:01:04-03:01:18, 03:01:20- 03:01:22, 03:01:24-03:07, 03:10-03:11N, 03:13-03:17, 03:19-03:22:02, 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	A3, Null, -				3								12										
*03:01:03, 03:09, 03:23:01	A3, -		w		3								12										
*03:01:19	-				3							11	12										
*03:01:23, 03:08, 03:32, 03:36N, 03:57, 03:59, 03:72, 03:107, 03:111, 03:142, 24:92 <sup>7</sup>	Null, -				3																		
*03:12	-				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	-				3	4						10											21
*03:89, 03:108	-		w		3																		
*03:95	-												12	13		15							
*11:01:01-11:05, 11:07- 11:09, 11:12-11:17, 11:19- 11:24:02, 11:26-11:27, 11:29- 11:52Q, 11:54-11:59, 11:61- 11:93, 11:95-11:111, 11:114- 11:120, 11:122	A11, -, Null				4							10											
*11:06, 11:18, 11:121	A11, -		w		4							10											
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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 “Instructions for Use” (IFU)

Lot No.: 96N

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>																					
*11:10	A11				4			7			10											
*11:11	-				4						10	11										
*11:25, 11:60	A11, -			3	4						10											
*11:94, 11:112	-	1			4						10											
*11:113	-				4						10				14							
*23:01:01-23:13, 23:15-23:51, B*18:27 <sup>8</sup>	A23(9), Null, -					5																
*23:14, 24:05, 24:13:02, 24:24, 24:199 <sup>9</sup>	A9, A24(9), -					5	6															
*24:02:01:01-24:04, 24:06-24:11N, 24:13:01, 24:17, 24:20-24:23, 24:25-24:27, 24:29-24:43, 24:45N-24:50, 24:54-24:56, 24:58-24:63, 24:66-24:81, 24:83N-24:88, 24:90-24:91, 24:93, 24:95-24:113, 24:115-24:137, 24:139-24:187, 24:189-24:198	A24(9), Low A24(9), A2403, A9, Null, -							6														
*24:18	A24(9), A3						6															21
*24:19, 24:44	A9, -						6			10												
*24:28, 24:89	A9, -		w				6															
*24:82	-						6															20
*25:01:01-25:04, 25:07-25:16	A25 (10), Null, -							7	8				12									
*25:05	-							7	8			11	12								19	
*25:06	-							7	8			11										
*26:01:01-26:01:20, 26:01:22-26:01:24, 26:08, 26:10-26:15, 26:17-26:18, 26:20, 26:23-26:29, 26:31-26:33, 26:35-26:43:02, 26:45-26:53, 26:55-26:63, 26:65-26:71N, 26:74	A26 (10), A10, Null, -							7		9			12									
*26:01:21, 26:04, 26:34, 26:73	A26 (10), -							7		9												
*26:02	A26 (10)							7		9			w									
*26:03:01-26:03:02, 26:06, 26:21	A26 (10), -		w					7			10		12									21
*26:05	A26 (10)							7					12									21
*26:07:01, 26:64	A26 (10), -									9				12								
*26:07:02	A26 (10)		w							9				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.: **96N**

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>																					
*26:09	A26 (10)							7		9		11										
*26:16	-						6			9			12									
*26:19	-				4								12	13								
*26:22	A26 (10)							7		9			12	13							20	
*26:30	-		w					7					12									21
*26:54	-							7		9		11	12							19		
*26:72	-				4								12									
*29:01:01:01-29:06, 29:08N-29:12, 29:15-29:18, 29:20-29:27, 29:29-29:35	A29 (19), Null, -													13								
*29:07	-					5								13								
*29:13	-													13		16						
*29:14	-													13	15							
*29:19	-													13					18			
*29:28	-							7						13								
*30:01:01-30:04:02, 30:06-30:07, 30:09-30:12, 30:14-30:15, 30:17-30:20, 30:22-30:43, 30:45, 30:47-30:54, 30:56, 30:58-30:63	A30 (19), Null, -														14							
*30:08	-				4										14							
*30:13, 30:16, 30:44, 30:46	A30 (19), -		w												14							
*30:55	-												12	14								
*30:57	-													13	14							
*31:01:02-31:02, 31:05-31:28, 31:30-31:34, 31:36-31:62	A31 (19), Null, -															15						
*31:03	-										10	11			15							
*31:04	A31 (19)											11			15							
*31:29	-					5									15							
*31:35	-														14	15	16					
*32:01:01-32:02, 32:06-32:14, 32:16-32:37, 32:39-32:41	A32 (19), Null, -								8								16					
*32:03, 32:38	-																16					
*32:04	-			3					8													
*32:05	-															15	16					
*32:15	-							7	8								16					
*33:01:01-33:01:06, 33:03:01-33:12, 33:14-33:18, 33:20-33:21, 33:23, 33:25-33:47, 33:49-33:50, 33:52, 33:54-33:59	A33 (19, A19), -																		17			
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.: 96N

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>																						
*33:13, 33:48	-									9				13				17					
*33:19	-						6											17					
*33:22	-																	17			20		
*33:24	-																	17					21
*33:51	-							7															
*33:53	-															15		17					
*34:01:01-34:01:02, 34:05-34:06	A34 (10), -							7			10	11											
*34:02:01, 34:02:03-34:04, 34:07	A34 (10), -			3				7			10	11											
*34:02:02	-			w				7			10	11											
*34:08	-			3				7			10	11	12										
*34:09	-			3				7				11											
*36:02	-	1		3																			21
*43:01	A43											11	12										
*66:01, 66:04-66:08, 66:10-66:11, 66:13-66:15	A66 (10), -							7			10		12										
*66:02-66:03, 66:16	A66 (10), A10, -							7				11											
*66:09	-							7			10		12	13									20
*66:12	-							7					12										
*68:01:01:01-68:04, 68:06-68:12, 68:14, 68:16-68:19, 68:21:01-68:28, 68:31-68:44, 68:46-68:65, 68:67-68:70, 68:72-68:83, 68:85-68:88	A68 (28), A28, Null, -							7													19		
*68:05, 68:15, 68:20	A68 (28), -		w					7													19		21
*68:13, 68:66	-				4			7														19	
*68:29	-							7										17			19	20	
*68:30	A68 (28)							7														19	
*68:45	-						6	7														19	
*68:71	-							7					12									19	
*68:84	-							7		9												19	
*69:01	A69 (28)							7															20
*74:01-74:06, 74:08-74:12N, 74:14N-74:15	A74 (19), Null, -																				18		
*74:07	A74 (19)															16		18					
*74:13	-												12								18		
*80:01	A80					5																	21
*80:02	-					5					10												
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	

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

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Lot No.: **96N**

### Lot-specific information

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

Well number 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 renamed to A\*02:01:18.

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

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

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

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

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

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

The A\*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.

<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 and 03:142 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>Primer mix 5 will amplify the B\*18:27 allele.

<sup>9</sup>The A\*23:14 and the A\*24:05, 24:13:02, 24:24 and 24:199 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 primer pairs in vials 1, 2, 10 and 14 will in many samples give rise to two or three HLA-specific PCR fragments.

'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.: 96N

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	190	290	165	165	180	105	195	105	115	80	150	135	60	210	170																							
				235	265	235			220	190		195		395	150					245																								
									330	390				435						400																								
Length of int. pos. control <sup>1</sup>		800	1070	1070	800	800	800	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	800	1070	1070	800	800																						
5'-primer(s) <sup>2</sup>		355	97	209	103	103	103	45	45	45	420	206	142	45	161	167	355	206	45	142	409																							
		5'-TCA <sup>3'</sup>	5'-TCg <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-CCg <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-CCg <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-AgA <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-Cgg <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-ggC <sup>3'</sup>																						
		363		363	103	103	418		357	435		420	419	540						368	368	420																						
		5'-AgC <sup>3'</sup>		5'-AgC <sup>3'</sup>	5'-CCg <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-Agg <sup>3'</sup>		5'-Tgg <sup>3'</sup>	5'-AAA <sup>3'</sup>		5'-TTA <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-gAC <sup>3'</sup>						5'-gTT <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-TTA <sup>3'</sup>																						
				363	361	363			412											557																								
				5'-AgC <sup>3'</sup>	5'-AgT <sup>3'</sup>	5'-AAT <sup>3'</sup>			5'-ATA <sup>3'</sup>											5'-ggA <sup>3'</sup>																								
3'-primer(s) <sup>3</sup>		603	272	309	193	246	246	165	206	266	559	272	301	272	234	204	463	302	259	311	544																							
		5'-gTg <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-TAT <sup>3'</sup>	5'-TAT <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-TCC <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-TgC <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-ggg <sup>3'</sup>	5'-ggT <sup>3'</sup>																							
		605	272	559	193	246	572		538	559		572	301	309	272					259	311																							
		5'-gCT <sup>3'</sup>	5'-TgA <sup>3'</sup>	5'-Cag <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-TAT <sup>3'</sup>	5'-gCC <sup>3'</sup>		5'-gTC <sup>3'</sup>	5'-Cag <sup>3'</sup>		5'-gCg <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-ATC <sup>3'</sup>	5'-TgA <sup>3'</sup>					5'-gTT <sup>3'</sup>	5'-ggg <sup>3'</sup>																							
					583	559				583			570	605	272					266	538																							
					5'-gTg <sup>3'</sup>	5'-CTC <sup>3'</sup>				5'-gTg <sup>3'</sup>			5'-CCg <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-Tgg <sup>3'</sup>					5'-TCC <sup>3'</sup>	5'-gTC <sup>3'</sup>																							
													572							272																								
																				292																								
																				572																								
																				5'-gCg <sup>3'</sup>	5'-gTA <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.: **96N**

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	115	130	90	90	145	120	430	145	300	160	180	180	90	95	115	360	350	Length of spec. PCR product(s)					
		425				195	270	410	175	430	210				330	210		240		150			Length of int. pos. control <sup>1</sup>					
						225																	5'-primer(s) <sup>2</sup>					
						260																	3'-primer(s) <sup>3</sup>					
1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	Well No.					
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'-gAA <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-TCA <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						
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				559										
		5'-gCg <sup>3'</sup>												5'-TgC <sup>3'</sup>				5'-CgT <sup>3'</sup>										

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*07:02:32	-	22				26															
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*07:04, 07:25, 07:146	B7, -	22												34							
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*07:27	-	22										32								40	
*07:28	-	22					27														
*07:36, 07:81, 07:149	-	22																			
*07:38	-	22																			
*07:47	-	22																			
*07:50	-	22										32									
*07:54, 07:123	-	22																			
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*07:65	-	22																		38	
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*07:73	-	22														36					
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*08:04	-	22	23						29			32									
*08:07, 08:14, 08:28, 08:37, 08:74, 08:77	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, 08:79	-	22	23																		
*08:17, 08:54	-	22	23						29			32									
<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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		44			47																	64	-	*07:02:32	
		44																				64	B703, -	*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, -	*07:07, 07:19, 07:33, 07:40, 07:53, 07:77, 07:122, 07:139	
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		44			w																	64	-	*07:47	
		44																				64	-	*07:50	
		44			47									56								64	-	*07:54, 07:123	
		44			47																	64	-	*07:60	
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	44				47																	64	-	*07:73	
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	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		46																		64	B8, -, Null	*08:01:01-08:01:17, 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, 08:56-08:59, 08:61, 08:63-08:64, 08:66-08:69, 08:71-08:73, 08:75, 08:80-08:83, 08:86N	
				46																		63	B8, -	*08:02-08:03, 08:52, 08:78	
		44		46																		64	-	*08:04	
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		44		46									56									64	-	*08:17, 08:54	
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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
*08:21	-	22	23	24					29												
*08:25	-	22	23	24																	
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*08:36	-	22	23						29												
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*08:60, 08:76	-	22	23						29												
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*13:03	-			24	25																
*13:04, 13:10, 13:21, 13:35, 44:135 <sup>6</sup>	B15, B21, -			24	25																
*13:06	-			24	25												37				
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*13:09	-				25						31										
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*13:14	-			24							31										
*13:16	-			24	25						31										
*13:31	-			24	25						31										
*13:36	-			24	25						31						37				
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*13:53	-			24	25																
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*14:02:01-14:02:02, 14:02:04, 14:03-14:04, 14:09, 14:11, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29, 14:31	B65(14), B14, -				25		27														
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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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		44																				64	-	*08:25
		44		46																		64	-	*08:26, 08:50, 08:62, 08:85, 42:07 <sup>5</sup>
		44		46															61			64	-	*08:32
				46																		64	-	*08:36
		44		46										56								64	-	*08:38
		44		46		48																64	-	*08:49
		44																				64	-	*08:55
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*15:01:04	B62(15)																			39	
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 101.708-24u – without *Taq* polymerase, IFU-02

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						48								56	57							63	B44(12), Null, -	*44:02:01:01-44:02:21, 44:02:23-44:02:24, 44:11, 44:19N, 44:21-44:24, 44:27:01-44:27:02, 44:33-44:34, 44:48, 44:52N, 44:55, 44:59, 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, 44:137, 44:142Q, 44:148-44:149N, 44:151-44:152
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*44:08	B44(12)			w													37				
*44:09	B45(12)				25												37				
*44:10	B44(12)				25						32						37	39			
*44:14	B44(12)				25				29								37				
*44:15	B12				25				29			32									
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*44:20, 44:100	-				25				29												
*44:25, 44:50	-				25												37				
*44:31	B44(12)				25																
*44:37:01-44:37:02, 44:64:01-44:64:02	-				25		27										37				
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*44:127	-				25												37				
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*45:08	-				25				29												
*45:09	-				25				29				33								
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 101.708-24u – without *Taq* polymerase, IFU-02

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						48								56	57						63		B44(12)	*44:08
						48							55	56	57							64	B45(12)	*44:09
						48								56			59				63		B44(12)	*44:10
						48								56							63		B44(12)	*44:14
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						48							55	56	57							64	-	*44:131
						48								56			59					63	-	*44:140
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		44											55	56		58						64	-	*45:08
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 101.708-24u – without *Taq* polymerase, IFU-02

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*46:06	-							28													
*46:11	-							28													
*46:12	-			24				28													
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*47:02	B47				25																
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*49:07	-				25							31									
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*50:06	-				25																
*50:07	-																				
*50:09	-				25																
*50:12	-				25																
*50:14	-				25					30											
*50:15	-				25																
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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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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					47		49										59					64	-	*46:11
					47		49														62	64	-	*46:12
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		44									53			55	56			59				64	-	*50:07
		44									53			55	56			59				64	-	*50:09
		44												55	56			59				64	-	*50:12
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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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 101.708-24u – without *Taq* polymerase, IFU-02

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*51:01:01-51:01:03, 51:01:05-51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26-51:02:03, 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	B51(5), B5102, B5103, Null, -									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	B51(5), B5102, -																				
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*52:01:05, 52:14	B52(5), -																				
*52:01:10	-									30											
*52:16	-									30		32									
*52:19	-								29	30											
*52:20	-									30											
*52:21	-									30											
*52:25	-																				
*52:26	-							27		30											
Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41

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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.
											53	54							61		63		B51(5), B5102, B5103, Null, - *51:01:01-51:01:03, 51:01:05-51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26-51:02:03, 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
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											53	54							61		63		- *51:101
											53	54									63		B17, Null, - *51:104, 51:118N, 58:08:01-58:08:02 <sup>10</sup>
											53	54				59			61		63		- *51:106
										52	53	54									63		- *51:112
											53	54		56							63		B52(5), - *52:01:01:01-52:01:04, 52:01:06-52:01:09, 52:01:11-52:13, 52:15, 52:17-52:18, 52:22-52:24, 52:27-52:29
											53	54		56							63		B52(5), - *52:01:05, 52:14
42											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
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
*53:01:01-53:01:07, 53:04-53:05, 53:07-53:08:02, 53:10, 53:16, 53:18-53:21, 53:23-53:27	B53, -																37				
*53:02, 53:06	-																37				
*53:03, 53:09, 53:11-53:13	B53, -																37				
*53:14	-			24																	
*53:15	-	22															37				
*53:17:01-53:17:02	-																37				
*53:22	-												33				37				
*54:01:01, 54:02, 54:05N, 54:07-54:08N, 54:10, 54:13, 54:16-54:19, 54:21-54:25	B54(22), Null, -																				
*54:01:02, 55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48, 55:50, 56:10 <sup>11</sup>	B55(22), B22, -																				
*54:03	-																				
*54:04, 54:09, 54:14-54:15	-																				
*54:06	-																				
*54:11	B54(22)																				
*54:12	-																				
*54:20	-																				
*54:26	-											31									
*55:01:01-55:01:06, 55:01:08-55:01:09, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:44-55:45, 55:52-55:55N	B55(22), -, B22, Null																				
*55:04, 55:08, 55:13, 55:23, 55:27, 55:32, 55:46, 55:49, 56:15, 56:18-56:19N, 56:22, 56:31-56:32 <sup>12</sup>	B55(22), B56(22), Null, -																				
*55:09, 55:24	B22, -											31									
*55:14	-																37				
*55:17, 55:28	-																				
*55:18	-											32									
*55:20	-								29												
*55:21	-																				
*55:22	B55(22)											31									
*55:34	-																				
*55:40	-																				
*55:51	-			24																	
*55:56	-								29												
*56:01:01-56:02, 56:04, 56:08, 56:14, 56:16, 56:20:01, 56:24, 56:26-56:30, 56:34-56:35	B56(22), Null, -																				
*56:03	B22																				
*56:05:01	B56(22)											30									
*56:05:02	B56(22)											30									
*56:06	B78											30							38		
*56:07	B56(22)																				
<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		Well No.
												54							61		63		B53, -	*53:01:01-53:01:07, 53:04-53:05, 53:07-53:08:02, 53:10, 53:16, 53:18-53:21, 53:23-53:27
							49					54							61		63		-	*53:02, 53:06
												54							61		63		B53, -	*53:03, 53:09, 53:11-53:13
												54							61		63		-	*53:14
												54							61		63		-	*53:15
												54	56								63		-	*53:17:01-53:17:02
						48						54							61		63		-	*53:22
					47			50							57	58						64	B54(22), Null, -	*54:01:01, 54:02, 54:05N, 54:07-54:08N, 54:10, 54:13, 54:16-54:19, 54:21-54:25
					47			50								58						64	B55(22), B22, -	*54:01:02, 55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48, 55:50, 56:10 <sup>11</sup>
					47			50							57	59						64	-	*54:03
					47			50							57							64	-	*54:04, 54:09, 54:14-54:15
					47			50							57						62	64	-	*54:06
	44				47			50							57							64	B54(22)	*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(22), B22, Null	*55:01:01-55:01:06, 55:01:08-55:01:09, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:44-55:45, 55:52-55:55N
					47			50														64	B55(22), B56(22), Null, -	*55:04, 55:08, 55:13, 55:23, 55:27, 55:32, 55:46, 55:49, 56:15, 56:18-56:19N, 56:22, 56:31-56:32 <sup>12</sup>
					47			50		53												64	B22, -	*55:09, 55:24
					47			50									60					64	-	*55:14
					47			50		53												64	-	*55:17, 55:28
													56		58							64	-	*55:18
				46	47			50														64	-	*55:20
					47			50		w					58						62	64	-	*55:21
					47			50														64	B55(22)	*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(22), Null, -	*56:01:01-56:02, 56:04, 56:08, 56:14, 56:16, 56:20:01, 56:24, 56:26-56:30, 56:34-56:35
					47			50													62	64	B22	*56:03
					47			50		53					58							64	B56(22)	*56:05:01
					47			50		53												64	B56(22)	*56:05:02
					47			50		53					58			w				64	B78	*56:06
					47			50							59							63	B56(22)	*56:07
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-specific information

Well No.		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
*56:09, 56:11-56:12	B56(22), B55(22), -																37				
*56:13	B56(22)								29												
*56:17, 56:33	-																				
*56:20:02	-																				
*56:21	-									30											
*56:23	-																				
*56:25	-																				
*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, 57:52-57:57, 58:36 <sup>13</sup>	B57(17), Null, -																37				
*57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47	B57(17), -																				
*57:04	B57(17)						27										37				
*57:07, 57:24	-																37				
*57:09	-								29								37				
*57:12	-																37				
*57:14	-																37				
*57:45, 57:51	-				25												37				
*58:01:01-58:01:02, 58:01:04- 58:01:11, 58:04-58:05, 58:10N- 58:15, 58:19, 58:21-58:24, 58:28-58:35	B58(17), Null, -																37				
*58:01:03, 58:02, 58:06, 58:16, 58:25-58:27	B58(17), -																				
*58:07	-											33									
*58:09	-																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	-																				
*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, -									30								38			
*78:05	-									30								38			
*78:06	-									30											
*81:01	B81	22																			
*81:02	B81	22																			
*81:03-81:05	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								
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-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.	
					47			50														64	B56(22), B55(22), -	*56:09, 56:11-56:12
					47			50								59						64	B56(22)	*56:13
																59						64	-	*56:17, 56:33
		44			47			50								59						64	-	*56:20:02
					47			50	52	53												63	-	*56:21
																58						64	-	*56:23
					47			50		53						59						64	-	*56:25
												54						60				63	B57(17), 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, 57:52-57:57, 58:36 <sup>13</sup>
												54					60				63	B57(17), -	*57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47	
												54					60				63	B57(17)	*57:04	
					48							54					60				63	-	*57:07, 57:24	
					48							54					60				63	-	*57:09	
																	60				64	-	*57:12	
							49					54					60				63	-	*57:14	
										52		54									63	-	*57:45, 57:51	
												54									63	B58(17), Null, -	*58:01:01-58:01:02, 58:01:04- 58:01:11, 58:04-58:05, 58:10N 58:15, 58:19, 58:21-58:24, 58:28-58:35	
												54									63	B58(17), -	*58:01:03, 58:02, 58:06, 58:16, 58:25-58:27	
												54									63	-	*58:07	
							49					54									63	-	*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	
		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, -	*78:02:01, 78:04
											53			56								64	-	*78:05
											53			56								64	-	*78:06
					47			50	51													64	B81	*81:01
		44			47				51													64	B81	*81:02
					47				51													64	Null, -	*81:03-81:05
					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
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-specific information

Well No.	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
A*26:68, A*68:56, C*02:56, C*06:20, C*12:50																				
C*01:30				25																
C*03:05, C*03:25, C*03:27, C*03:143			24																	
C*03:12, C*03:19																				
C*03:102																37				
C*03:129																				
C*06:72																				
C*07:02:30, C*08:16:02							28													
C*07:46								29												
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, 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.

The B\*15:59 allele has been renamed B\*35:44.

The sequence of the B\*18:16 allele has been shown to be identical to B\*18:14.

The sequence of the B\*27:051 allele has been shown to be identical to B\*27:05:02.

The sequence of the B\*27:22 allele has been shown to be identical to the corrected B\*27:06 sequence.

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

The B\*35:73 allele has been renamed B\*35:08:03.

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

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

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.

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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.	
																				62			A*26:68, A*68:56, C*02:56, C*06:20, C*12:50 C*01:30	
																								C*03:05, C*03:25, C*03:27, C*03:143
																	59							C*03:12, C*03:19
																	59							C*03:102
			45																					C*03:129
																					60			C*06:72
																								C*07:02:30, C*08:16:02
																								C*07:46
																	58							C*15:02:04
							48																	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\*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\*08:26, 08:50, 08:62 and 08:85 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>6</sup>The B\*13:04, 13:10, 13:21 and 13:35 and the B\*44:135 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\*14:08 and the B\*39:25N, 39:30, 39:32-39:34, 39:43, 39:47 and 39:50 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\*18:29 and the B\*35:09:01-35:09:03, 35:18, 35:31-35:32:02, 35:37, 35:53N, 35:64, 35:68:01-35:68:02, 35:75, 35:88, 35:99, 35:118-35:119, 35:127, 35:151 and 35:174 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

<sup>9</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>10</sup>The B\*51:104 and 51:118N 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>11</sup>The\*54:01:02 and the B\*55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48, 55:50 and 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>12</sup>The B\*55:04, 55:08, 55:13, 55:23, 55:27, 55:32, 55:46 and 55:49 and the B\*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>13</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 and 57:52-57:57 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>14</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.

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

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Lot-specific information

		INTERPRETATION TABLE																						
		DR low resolution SSP typing																						
		Amplification patterns of the DRB1*01:01 to DRB1*10:04 alleles																						
		Well																						
		65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87
Length of spec.	PCR product(s)	255	205																					
Length of int. pos. control <sup>1</sup>		515																						
5'-primer(s) <sup>2</sup>		5'-gAA <sup>3</sup> 14(129)	5'-A.T <sup>3</sup> 13(124)	5'-gAA <sup>3</sup> 14(129)	5'-gAA <sup>3</sup> 14(129)	5'-AAg <sup>3</sup> 13(126)	5'-AAg <sup>3</sup> 13(126)	5'-AAg <sup>3</sup> 13(126)	5'-gTT <sup>3</sup> 47(227)	5'-gTC <sup>3</sup> 13(125)	5'-gTC <sup>3</sup> 16(133)	5'-gTT <sup>3</sup> 16(133)	5'-gTC <sup>3</sup> 13(125)	5'-gTT <sup>3</sup> 16(133)	5'-gTC <sup>3</sup> 16(133)	5'-gTC <sup>3</sup> 13(125)	5'-gTC <sup>3</sup> 13(125)	5'-gTC <sup>3</sup> 13(125)	5'-gTC <sup>3</sup> 13(125)	5'-gTC <sup>3</sup> 13(125)	5'-gTC <sup>3</sup> 13(125)	5'-gTC <sup>3</sup> 13(125)	5'-gTC <sup>3</sup> 13(125)	5'-gTC <sup>3</sup> 13(125)
3'-primer(s) <sup>3</sup>		5'-CCA <sup>3</sup> 86(344)	5'-gAT <sup>3</sup> 67(286)	5'-gAg <sup>3</sup> 67(286)	5'-gAT <sup>3</sup> 67(286)	5'-CTg <sup>3</sup> 70(295)	5'-CTg <sup>3</sup> 70(295)	5'-CTg <sup>3</sup> 70(295)	5'-ggC <sup>3</sup> 73(305)	5'-gCT <sup>3</sup> 71(299)	5'-CTg <sup>3</sup> 70(295)	5'-gag <sup>3</sup> 73(305)	5'-gag <sup>3</sup> 73(305)	5'-gag <sup>3</sup> 73(305)	5'-gag <sup>3</sup> 73(305)	5'-gag <sup>3</sup> 73(305)	5'-gag <sup>3</sup> 73(305)	5'-gag <sup>3</sup> 73(305)	5'-gag <sup>3</sup> 73(305)	5'-gag <sup>3</sup> 73(305)	5'-gag <sup>3</sup> 73(305)	5'-gag <sup>3</sup> 73(305)	5'-gag <sup>3</sup> 73(305)	5'-gag <sup>3</sup> 73(305)
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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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, 01:43-01:45	DR1, Null, -	65																						
*01:03, 01:39N	DR103, Null		66																					
*01:42	-	65	66																					
*03:01:01-03:01:19, 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, 03:77-03:80, 03:11:02	DR17(3), DR3, Null, -					69	70											81						
*03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74	DR18(3), -					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	-					69	70				75	77												
*03:10	DR17(3)					69	70												83	84				
*03:42, 03:69	-					69																		
*03:46, 03:64	-					69	70																	
*03:76	-					70						76			79		81							
*04:01:01-04:61, 04:63-04:68, 04:70-04:72:02, 04:74-04:104, 04:106-04:107	DR4, Null, -								72															
*04:62, 04:69, 04:73, 04:105	-								72									82						
*07:01:01-07:01:04, 07:03-07:22	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	DR8, -										74						80							
*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, 08:36-08:38, 08:45-08:49	DR8, -										74													
*08:08	-										74						80	82						
*08:09, 14:15 <sup>5</sup>	DR8										74						80			84				
*08:20, 13:18, 13:47, 13:55 <sup>6</sup>	DR13(6), -															79	80	81		84				
*08:21	-										74					79	80			84				
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.: **96N**

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>																							
*08:31, 08:41, 11:67 <sup>7</sup>	DR11(5), -										74			77			80							
*08:32	-										74				78						84			
*08:35	-										74										84			
*08:40	-						70				74													
*09:01:02-09:01:05, 09:01:07-09:02:02, 09:04-09:17	DR9, -											75								83				
*09:01:06, 09:03	DR9, -											75												
*10:01:01-10:04	DR10, -												76											
*11:01:01-11:01:16, 11:04:01-11:04:08, 11:06:01-11:06:02, 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	DR11(5), -													77		79	80							
*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	DR11(5), DR13 (6), -						70							77		79	80							
*11:05	DR11(5)													77			80							
*11:07, 11:53, 11:103, 11:105, 11:107, 11:125	DR11(5), -						69					75		77										
*11:08:01-11:08:02, 11:18-11:19:03, 11:42, 11:57	DR11(5), -													77		79								
*11:13:01-11:13:02	DR11(5)								w					77						83	84			
*11:17, 11:52	DR11(5), -													77						83	84			
*11:22, 11:98, 11:104	-													77										
*11:23, 11:25, 11:96	DR11(5), -													77		79	80				84			
*11:26, 11:34	DR11(5), -							71						77										
*11:31, 11:45, 11:64, 11:119	-													77		79					84			
*11:55	-													77			80				84			
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.: **96N**

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
<b>DRB1 allele<sup>4</sup></b>	<b>ser<sup>9</sup></b>																							
*11:59, 11:80, 11:83, 11:87	-						70						76	77		79	80							
*11:69, 11:82	-													77			80		82					
*11:73, 11:79	-						70							77		79								
*11:89	-													77							84			
*12:01:01-12:01:04, 12:03, 12:05-12:12, 12:14, 12:17, 12:24N-12:25, 12:28-12:30, 12:34-12:35	DR12(5), 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	DR12(5), Null, -															78		80						
*12:04	-											74			78									
*12:16	-											74			78		80							
*12:22	-										73	74			78									
*13:01:01-13:02:01, 13:02:03-13:02:05, 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, 13:138-13:139	DR13(6), DR14(6), Null, -						70										79	80	81					
*13:02:02, 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, 13:94-13:95, 13:101, 13:115, 13:120, 13:133, 13:137N	DR13(6), 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	DR13(6), -															79	80	81						
<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.: 96N

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>																							
*13:06, 13:12:01-13:12:02, 13:25, 13:30, 13:56, 13:58, 13:60, 13:77, 13:82, 13:110, 13:118, 13:134	DR13(6), -															79	81							
*13:09	-																80	81						
*13:13, 13:119, 14:84, 14:116 <sup>8</sup>	DR13(6), -															79	81			84				
*13:15, 13:19, 13:53, 13:57, 13:104	DR13(6), -						70	71								79	80	81						
*13:17, 13:116	DR13(6), -						70			73							80							
*13:26	-							71								79	80	81						
*13:27, 13:41, 13:71	DR13(6), -						70						76			79	80	81						
*13:43	-						70									79	80			83	84			
*13:44, 13:86	-							71										81						
*13:45	-						70									79	80		82	84				
*13:67, 13:103	-															79	80							
*13:85	-						70	71								79		81						
*13:122	-						70									79								
*13:129	-						70						76				80	81						
*14:01:01-14:01:02, 14:04, 14:07:01-14:07:02, 14:10, 14:26, 14:28, 14:31, 14:35, 14:38-14:39, 14:54:01, 14:55, 14:57, 14:60-14:62, 14:70- 14:71, 14:75-14:76, 14:79, 14:86-14:88, 14:90, 14:99, 14:101, 14:104, 14:107, 14:110-14:114, 14:117- 14:118, 14:120, 14:122, 14:124-14:125	DR14(6), DR1404, -																		82	83	84			
*14:01:03, 14:08, 14:23:02, 14:34, 14:54:02, 14:72, 14:92N, 14:97	DR14(6), 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(6), 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	DR14(6), DR1403, -							71								79		81			84			
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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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>																							
*14:05:01-14:05:03, 14:14, 14:23:01, 14:23:03, 14:36, 14:43-14:45, 14:56, 14:59, 14:64, 14:91, 14:96, 14:100, 14:103, 14:123	DR14(6), -																	81		83	84			
*14:11	DR14(6)										74									83	84			
*14:16	DR6						70									79	80		82	83	84			
*14:18, 14:81	DR6, -							71										81		83	84			
*14:19, 14:21, 14:109	DR14(6), -						70	71								79		81		w				
*14:22, 14:105	DR14(6), -															79	80		82	83	84			
*14:24	-							71									80	81						
*14:25, 14:53	DR13(6), -															79	80		82		84			
*14:27	DR14(6)							71								79	80	81			84			
*14:32:01-14:32:02	-							w											82	83	84			
*14:37	-																80	81	82					
*14:42	-																	81			84			
*14:46, 14:52	-																			83				
*14:49, 14:119	DR14(6), -							71											82	83	84			
*14:50	DR14(6)										73								82	83	84			
*14:58	-																		82		84			
*14:65	-							w										81		83	84			
*14:68, 14:93	-										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						
*15:01:01:01-15:20, 15:22-15:24, 15:26, 15:28-15:33, 15:35-15:65, 15:67-15:71	DR15(2), DR2, Null, -			67																				
*15:21	-			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	DR16(2), DR2, Null, -				68																			
*16:04, 16:18	DR16(2), -				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  
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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>																							
<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*01:01-01:03:01:01</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*02:02-02:05</i>	DR51, Null, -																							87
Well No.	ser <sup>5</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\*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 sequence of 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 and 13:55 alleles yield identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

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

<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.: 96N

Lot-specific information

INTERPRETATION TABLE										
DQ low resolution SSP typing										
Amplification patterns of the DQB1*05:01 to DQB1*04:08 alleles										
		Well <sup>6</sup>								
		88	89	90	91	92	93	94	95	96
Length of spec.		225	220	210	220	130	135	145	210	Negative control
PCR product(s)			270					185	245	
Length of int.		515	430	430	515	515	515	515	430	
pos. control <sup>1</sup>										
5'-primer(s) <sup>2</sup>		26(173) 5'-ggg 3'	9(122) 5'-gTT 3'	30(185) 5'-AAg 3'	26(173) 5'-TTA 3'	28(179) 5'-gAC 3'	26(173) 5'-TCT 3'	38(210) 5'-gCA 3'	9(122) 5'-gTT 3'	
			26(173) 5'-TTA 3'			28(179) 5'-gAC 3'		48(240) 5'-CgC 3'	21(159) 5'-ACC 3'	
			26(173) 5'-TCT 3'					55(260) 5'-gCC 3'		
								55(260) 5'-gCA 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'							
Well No.		88	89	90	91	92	93	94	95	96
DQB1 allele <sup>4</sup>	ser. <sup>5</sup>									
*05:01:01:01-05:14	DQ5(1), -	88								Negative control
*06:01:01-06:28, 06:30-06:49	DQ6(1), DQ1, Null, -		89							
*06:29	-		89			92				
*02:01:01-02:02, 02:04-02:06	DQ2, -			90						
*02:03	DQ2			90			93			
*03:01:01:01-03:01:06, 03:04, 03:09-03:10, 03:13-03:14, 03:16, 03:19, 03:21-03:22, 03:24, 03:27-03:29, 03:35- 03:36	DQ7(3), DQ8(3), -				91			94		
*03:02:01-03:02:05, 03:05:01- 03:05:04, 03:07-03:08, 03:11, 03:18, 03:32, 03:37	DQ8(3), -					92		94		
*03:03:02:01-03:03:04, 03:06, 03:12, 03:15, 03:20, 03:25- 03:26, 03:30-03:31, 03:33- 03:34, 03:38-03:40	DQ9(3), DQ3, -						93	94		
*03:17, 03:23	-							94		
*04:01:01-04:02:02, 04:04- 04:08	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.: 96N****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 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>3</sup>The serological split of the DQB1\*05:05-05:14, DQB1\*06:06 to 06:07 alleles, the DQB1\*06:10, 06:13, 06:15-06:24 and 06:27 to 06:49, the DQB1\*02:04-02:06, the DQB1\*03:07-03:09 and 03:11-03:40 alleles and the DQB1:04:0301-04:08 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.: **96N**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-A low resolution primer set																			
				Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
				Lot No.:	201293101	201201902	201293103	201201904	201201906	201201907	201201908	201201909	201201910	201201911	201201912	201201913	201201914	201201915	201201916
	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-01101.708-24u – without *Taq* polymerase, IFU-02Visit [www.olerup-ssp.com](http://www.olerup-ssp.com) for

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Lot No.: **96N**

Lot-specific information

CELL LINE VALIDATION SHEET										
HLA-A low resolution primer set										
					Well					
					16	17	18	19	20	21
				Lot No.:	201201917	201201918	201201919	201201920	201201921	201201923
	IHWC cell line	A*	A*							
1	9001 SA	*24:02			-	-	-	-	-	-
2	9280 LK707	*02:01			-	-	-	-	-	-
3	9011 E4181324	*01:01			-	-	-	-	-	-
4	9275 GU373	*30:01			-	-	-	-	-	-
5	9009 KAS011	*01:01			-	-	-	-	-	-
6	9353 SM	*02:01	*26:03		-	-	-	-	-	+
7	9020 QBL	*26:01			-	-	-	-	-	-
8	9025 DEU	*31:01			-	-	-	-	-	-
9	9026 YAR	*26:01			-	-	-	-	-	-
10	9107 LKT3	*24:02			-	-	-	-	-	-
11	9051 PITOUT	*29:02			-	-	-	-	-	-
12	9052 DBB	*02:01			-	-	-	-	-	-
13	9004 JESTHOM	*02:01			-	-	-	-	-	-
14	9071 OLGA	*31:01			-	-	-	-	-	-
15	9075 DKB	*24:02			-	-	-	-	-	-
16	9037 SWEIG007	*29:02			-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01		-	-	-	-	-	+
18	9257 32367	*33:03	*74:01		-	+	+	-	-	-
19	9038 BM16	*02:01			-	-	-	-	-	-
20	9059 SLE005	*02:01			-	-	-	-	-	-
21	9064 AMALA	*02:17			-	-	-	-	-	-
22	9056 KOSE	*02:01			-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01		-	-	-	-	-	-
24	9035 JBUSH	*32:01			+	-	-	-	-	-
25	9049 IBW9	*33:01			-	+	-	-	-	-
26	9285 WT49	*02:05			-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01		-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02		-	-	-	-	-	-
29	9050 MOU	*29:02			-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02		-	-	-	+	-	-
31	9019 DUCAF	*30:02			-	-	-	-	-	-
32	9297 HAG	*02:01			-	-	-	-	-	-
33	9098 MT14B	*31:01			-	-	-	-	-	-
34	9104 DHIF	*31:01			-	-	-	-	-	-
35	9302 SSTO	*32:01			+	-	-	-	-	-
36	9024 KT17	*02:06	*11:01		-	-	-	-	-	-
37	9065 HHKB	*03:01			-	-	-	-	-	-
38	9099 LZL	*02:17			-	-	-	-	-	-
39	9315 CML	*01:01	*03:01		-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01		-	-	-	-	-	-
41	9055 H0301	*03:01			-	-	-	-	-	-
42	9066 TAB089	*02:07			-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07		-	-	-	-	-	-
44	9057 TEM	*66:01			-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02		-	-	-	-	-	-
46	9013 SCHU	*03:01			-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01		-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01		-	-	-	-	-	-



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

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Lot No.: **96N**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-B low resolution SSP kit</b>																			
				<b>Well</b>															
				22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
				Prod. No.:	201188648	201190002	201190003	201190004	201190005	201190006	201190007	201190008	201190009	201190010	201201111	201190013	201190014	201190015	201190016
<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

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

Lot No.: **96N**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																		
<b>HLA-B low resolution SSP kit</b>																		
				<b>Well</b>														
				37	38	39	40	41	42	43	44	45	46	47	48	49	50	
				Prod. No.:	201190017	201190018	201190019	201298120	201190021	201190022	201190023	201190024	201190025	201190027	201190028	201190029	201190031	201190032
<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.: **96N**

Lot-specific information

CELL LINE VALIDATION SHEET																		
HLA-B low resolution SSP kit																		
				Well														
				51	52	53	54	55	56	57	58	59	60	61	62	63	64	
				Prod. No.:	201190033	201190034	201190035	201190036	201190037	201190038	201190039	201190040	201190041	201190042	201190044	201298145	201190046	201190047
IHCW cell line			B*															
1	9001	SA	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
2	9280	LK707	*52:01	*73:01	-	-	+	+	-	+	-	-	-	-	-	-	+	-
3	9011	E4181324	*52:01		-	-	+	+	-	+	-	-	-	-	-	+	+	+
4	9275	GU373	*15:10	*53:01	-	-	-	+	-	-	-	-	-	-	+	-	+	+
5	9009	KAS011	*37:01		-	-	-	-	-	+	-	-	-	-	-	-	+	-
6	9353	SM	*39:01	*51:01	-	-	+	+	-	-	-	-	-	-	+	-	+	+
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	+	-	-	+
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	+	-	-	+
9	9026	YAR	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	+	+	-	-	-	-	+
11	9051	PITOUT	*44:03		-	-	-	-	-	+	-	-	-	-	-	-	+	-
12	9052	DBB	*57:01		-	-	-	+	-	-	-	-	-	+	-	-	+	-
13	9004	JESTHOM	*27:05		-	-	-	-	-	+	-	-	-	-	-	-	+	-
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	+	-	-	-	-	-	+	-	+
15	9075	DKB	*40:01		-	-	-	-	+	+	-	-	-	-	-	-	-	+
16	9037	SWEIG007	*40:02		-	-	-	-	+	+	-	-	-	-	-	-	-	+
17	9282	CTM3953540	*08:01	*55:01	-	-	+	-	-	-	-	+	-	-	-	-	-	+
18	9257	32367	*14:01	*56:01	-	-	-	-	-	-	-	-	+	-	-	-	-	+
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	+	-	-	+
20	9059	SLE005	*40:01		-	-	-	-	+	+	-	-	-	-	-	-	-	+
21	9064	AMALA	*15:01		-	-	-	-	-	+	-	-	-	-	-	+	-	+
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	+	-	-	+
23	9124	IHL	*40:02	*56:02	-	-	-	-	+	+	-	-	+	-	-	-	-	+
24	9035	JBUSH	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-
25	9049	IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+
26	9285	WT49	*58:01		-	-	-	+	-	-	-	-	-	-	-	-	+	-
27	9191	CH1007	*07:05	*51:01	-	-	+	+	-	-	-	-	-	-	+	-	+	+
28	9320	BEL5GB	*44:02	*44:03	-	-	-	-	-	+	+	-	-	-	-	-	+	-
29	9050	MOU	*44:03		-	-	-	-	-	+	-	-	-	-	-	-	+	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	+	-	-	+
32	9297	HAG	*41:02		-	-	-	-	+	+	-	-	-	-	-	-	-	+
33	9098	MT14B	*40:01		-	-	-	-	+	+	-	-	-	-	-	-	-	+
34	9104	DHIF	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-
35	9302	SSTO	*44:02		-	-	-	-	-	+	+	-	-	-	-	-	+	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	+	-	-	-	-	+	+	-	+
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+
38	9099	LZL	*15:01		-	-	-	-	-	+	-	-	-	-	-	+	-	+
39	9315	CML	*08:01	*27:05	-	-	-	-	-	+	-	-	-	-	-	-	+	+
40	9134	WHONP199	*13:02	*46:01	-	-	-	-	-	+	-	-	-	-	-	+	+	+
41	9055	H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	-	+	-	+
43	9076	T7526	*46:01		-	-	-	-	-	-	-	-	-	-	-	+	-	+
44	9057	TEM	*38:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-
45	9239	SHJO	*42:01	*50:01	-	-	+	-	+	+	-	-	+	-	-	-	-	+
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+
47	9045	TUBO	*51:01		-	-	+	+	-	-	-	-	-	-	+	-	+	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	-	-	+	-	-	-	-	+	-	+	+

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

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Lot No.: **96N**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>DR low resolution primer set</b>																				
				Prod. No.:	Well															
					65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
					201297201	201297202	201297203	201297204	201297205	201297206	201297207	201297208	201297209	201297210	201297211	201297212	201297213	201297214	201297215	201297216
	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-01101.708-24u – without *Taq* polymerase, IFU-02Visit [www.olerup-ssp.com](http://www.olerup-ssp.com) for  
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Lot No.: 96N

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.:	201297217	201200618	201200619	201297220	201297229	201297230	201297231
IHCW 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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Lot No.: 96N

Lot-specific information

CELL LINE VALIDATION SHEET												
DQ low resolution primer set												
				Production No.	Well							
					88	89	90	91	92	93	94	95
					201194801	201194802	201194803	201194804	201194805	201194806	201194807	201194808
	IHWC cell line		DQB1									
1	9001 SA		*05:01		+	-	-	-	-	-	-	-
2	9280 LK707		*06:01	*02:02	-	+	+	-	-	-	-	-
3	9011 E4181324		*06:01		-	+	-	-	-	-	-	-
4	9275 GU373		*02:01		-	-	+	-	-	-	-	-
5	9009 KAS011		*05:02		+	-	-	-	-	-	-	-
6	9353 SM		*03:02	*06:01	-	+	-	-	+	-	+	-
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	*06:03	-	+	+	-	-	-	-	-
18	9257 32367		*06:02	*02:02	-	+	+	-	-	-	-	-
19	9038 BM16		*03:01		-	-	-	+	-	-	+	-
20	9059 SLE005		*06:04		-	+	-	-	-	-	-	-
21	9064 AMALA		*03:01		-	-	-	+	-	-	+	-
22	9056 KOSE		*05:03	*06:04	+	+	-	-	-	-	-	-
23	9124 IHL		*05:03	*06:01	+	+	-	-	-	-	-	-
24	9035 JBUSH		*03:01		-	-	-	+	-	-	+	-
25	9049 IBW9		*02:02		-	-	+	-	-	-	-	-
26	9285 WT49		*02:01		-	-	+	-	-	-	-	-
27	9191 CH1007		*04:01	*05:01	+	-	-	-	-	-	-	+
28	9320 BEL5GB		*02:02	*03:01	-	-	+	+	-	-	+	-
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	*03:01	-	-	+	+	-	-	+	-
40	9134 WHONP199		*02:02	*03:03	-	-	+	-	-	+	+	-
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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Lot No.: **96N**

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: **96N**

Expiry date: **2014-December-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	2011-931-01	9	2012-019-10	17	2012-019-18
2	2012-019-02	10	2012-019-11	18	2012-019-19
3	2011-931-03	11	2012-019-12	19	2012-019-20
4	2012-019-04	12	2012-019-13	20	2012-019-21
5	2012-019-06	13	2012-019-14	21	2012-019-23
6	2012-019-07	14	2012-019-15		
7	2012-019-08	15	2012-019-16		
8	2012-019-09	16	2012-019-17		

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

Additional 5'- and/or 3'-primers in primer solutions 1, 3 to 7, 9, 11 and 13 to 21 were tested by separately adding additional 3'-primers or 5'-primers. One or two primers in primer solutions 2, 3, 7, 8, 9, 10, 14, 17 and 18 were not possible to test.

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
22	2011-886-48	38	2011-900-18	54	2011-900-36
23	2011-900-02	39	2011-900-19	55	2011-900-37
24	2011-900-03	40	2012-981-20	56	2011-900-38
25	2011-900-04	41	2011-900-21	57	2011-900-39
26	2011-900-05	42	2011-900-22	58	2011-900-40
27	2011-900-06	43	2011-900-23	59	2011-900-41
28	2011-900-07	44	2011-900-24	60	2011-900-42
29	2011-900-08	45	2011-900-25	61	2011-900-44
30	2011-900-09	46	2011-900-27	62	2012-981-45
31	2011-900-10	47	2011-900-28	63	2011-900-46
32	2012-011-11	48	2011-900-29	64	2011-900-47
33	2011-900-13	49	2011-900-31		
34	2011-900-14	50	2011-900-32		
35	2011-900-15	51	2011-900-33		
36	2011-900-16	52	2011-900-34		
37	2011-900-17	53	2011-900-35		

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

Additional 5'-primers and/or 3'-primers in primer solutions 22 to 24, 27, 33 to 35, 39, 41, 45, 48, 49, 53 and 58 were tested by separately adding additional 3'-primers or 5'-primers. One or two primers in primer solutions 49, 56 and 60 were 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.: **96N**

Lot-specific information

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
65	2012-972-01	73	2012-972-09	81	2012-972-17
66	2012-972-02	74	2012-972-10	82	2012-006-18
67	2012-972-03	75	2012-972-11	83	2012-006-19
68	2012-972-04	76	2012-972-12	84	2012-972-20
69	2012-972-05	77	2012-972-13	85	2012-972-29
70	2012-972-06	78	2012-972-14	86	2012-972-30
71	2012-972-07	79	2012-972-15	87	2012-972-31
72	2012-972-08	80	2012-972-16		

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

Additional 5'-primers and/or 3'-primers in primer solutions 65, 67, 68, 70, 73 to 76, 79, 80, 82 and 84 were tested by separately adding additional 3'-primers, respectively additional 5'-primers.

One, two or three of the primers in primer solutions 65, 67, 68, 72 to 74, 77, 79, 80 and 86 were not possible to test.

Well No.	Production No.
88	2011-948-01
89	2011-948-02
90	2011-948-03
91	2011-948-04
92	2011-948-05
93	2011-948-06
94	2011-948-07
95	2011-948-08

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 95 were tested by separately adding one additional 3'-primer.

The negative control primer pairs, **Production No. 2012-002-01**, can detect contamination with PCR products diluted  $10^{-7}$ .

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

**Date of approval:** 2012-June-20

**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.: **96N**

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:** 96N

**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 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

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

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

Stockholm, Sweden  
2012-June-20

Ann-Cathrin Jareman  
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.: **96N**

Lot-specific information

101.708-24– including *Taq* polymerase, IFU-01  
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Lot No.: **96N**

Lot-specific information

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