

101.515-12– including *Taq* pol., IFU-01  
101.515-12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **37R**

Lot-specific information  
**Olerup SSP<sup>®</sup> HLA-B\*13**

Product number:	101.515-12– including <i>Taq</i> pol. 101.515-12u – without <i>Taq</i> pol.
Lot number:	37R
Expiry date:	2015-April-01
Number of tests:	12
Number of wells per test:	24
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. 37R.**

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP<sup>®</sup>  
HLA-B\*13 LOT (13M)**

The HLA-B\*13 kit is updated for new alleles to enable separation of:

- Confirmed<sup>1</sup> alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

The Lot-specific information for HLA-B\*13 including and without *Taq* polymerase is now described in one common Product Insert.

<sup>1</sup>As described in section Uniquely Identified Alleles.

The HLA-B\*13 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP<sup>®</sup>* HLA-B\*13 lot was made (Lot No. 13M).

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

Well	5'-primer	3'-primer	rationale
6	-	Added	3'-primer added for the B*13:56N allele.
13	Added	Added	Primer pair added for the B*13:52 allele.
16	-	-	Exchanged positive control primer pair.
17	Added	-	5'-primer added for the B*13:49N allele.
18	-	Modified	Improved specificity of amplification.
20	Exchanged	-	Decreased tendencies of primer oligomer formation.

Change in revision R01 compared to R00:

1. Primer mixes 2 and 3 amplify the B\*13:12 allele. This has been corrected in the Specificity and Interpretation Tables. Thus, this lot of the HLA-B\*13 subtyping kit cannot distinguish the B\*13:12 and 13:52 alleles.

Change in revision R02 compared to R01:

2. Primer mix 13 amplifies the B\*27:04:01-27:04:03, 27:06, 27:20, 27:24, 27:25, 27:66N, 27:68 and 27:69 alleles. This has been corrected in the Specificity and Interpretation Tables.

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## PRODUCT DESCRIPTION

### HLA-B\*13 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the B\*13:01 to B\*13:58 alleles.

#### PLATE LAYOUT

Each test consists of 24 PCR reactions in a 24 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

The 24 well cut PCR plate is marked with ‘HLA-B\*13’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘37R’.

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 heat-sealed with a PCR-compatible foil.

**Please note:** When removing each 24 well PCR plate, make sure that the remaining plates stay sealed. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

#### INTERPRETATION

The interpretation of HLA-B\*13 subtypings will be influenced by the B\*07, most B\*08, the B\*14, most B\*15, most B\*18, several B\*27, most B\*35, four B\*37, the B\*38, most B\*39, the B\*40, the B\*41, most B\*42, several B\*44, the B\*45, the B\*46, two B\*47, most B\*48, most B\*49, the B\*50, most B\*51, most B\*52, most B\*53, most B\*54, most B\*55, most B\*56, most B\*57, most B\*58, the B\*59, the B\*67, the B\*73, most B\*78, the B\*81 and the B\*82 alleles when present on the other haplotype. In addition, the C\*02:06 and C\*02:47 alleles will be amplified by primer mix 12, the C\*02:62, C\*03:34, C\*03:142 and C\*15:42 alleles will be amplified by primer mix 3, the C\*15:24 allele will be amplified by primer mixes 7 and 10 and the C\*17:08 allele will be amplified by primer mix 19.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-B\*13 alleles, i.e. **B\*13:01 to B\*13:58**, recognized by the HLA Nomenclature Committee in July 2012<sup>1</sup> will be amplified by the primers in the HLA-B\*13 subtyping kit.

The HLA-B\*13 kit enables separation of the confirmed HLA-B\*13 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-B\*13 alleles is listed below.

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**Lot No.: 37R****Lot-specific information**

The HLA-B\*13 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles

The HLA-B\*13 kit cannot distinguish the silent mutations in the B\*13:01:01-13:01:06 alleles or the 13:02:01-13:02:13 alleles.

The B\*13:15 and B\*13:33 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 16.

The B\*13:34 and B\*13:38 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 19.

The B\*13:27 and 13:49N alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 17.

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2012-July-12, release 3.9.0, [www.ebi.ac.uk/imgt/hl](http://www.ebi.ac.uk/imgt/hl)

**ALLELE CONFIRMATION STATUS**

Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
<b>B*13:01:01</b>	<b>Confirmed</b>	<b>B*13:04</b>	<b>Confirmed</b>	B*13:25	Unconfirmed	<b>B*13:45</b>	<b>Confirmed</b>
B*13:01:02	Unconfirmed	<b>B*13:06</b>	<b>Confirmed</b>	B*13:26	Unconfirmed	B*13:46	Unconfirmed
B*13:01:03	Unconfirmed	B*13:07N	Unconfirmed	B*13:27	Unconfirmed	B*13:47	Unconfirmed
B*13:01:04	Unconfirmed	<b>B*13:08Q</b>	<b>Confirmed</b>	B*13:28	Unconfirmed	<b>B*13:48</b>	<b>Confirmed</b>
B*13:01:05	Unconfirmed	B*13:09	Unconfirmed	B*13:29	Unconfirmed	B*13:49N	Unconfirmed
B*13:01:06	Unconfirmed	<b>B*13:10</b>	<b>Confirmed</b>	B*13:30	Unconfirmed	B*13:50	Unconfirmed
<b>B*13:02:01</b>	<b>Confirmed</b>	<b>B*13:11</b>	<b>Confirmed</b>	B*13:31	Unconfirmed	B*13:51	Unconfirmed
<b>B*13:02:02</b>	<b>Confirmed</b>	<b>B*13:12</b>	<b>Confirmed</b>	<b>B*13:32</b>	<b>Confirmed</b>	B*13:52	Unconfirmed
B*13:02:03	Unconfirmed	<b>B*13:13</b>	<b>Confirmed</b>	B*13:33	Unconfirmed	B*13:53	Unconfirmed
<b>B*13:02:04</b>	<b>Confirmed</b>	B*13:14	Unconfirmed	B*13:34	Unconfirmed	B*13:54	Unconfirmed
B*13:02:05	Unconfirmed	B*13:15	Unconfirmed	B*13:35	Unconfirmed	B*13:55	Unconfirmed
B*13:02:06	Unconfirmed	B*13:16	Unconfirmed	B*13:36	Unconfirmed	B*13:56N	Unconfirmed
B*13:02:07	Unconfirmed	B*13:17	Unconfirmed	B*13:37	Unconfirmed	B*13:57	Unconfirmed
B*13:02:08	Unconfirmed	B*13:18	Unconfirmed	B*13:38	Unconfirmed	B*13:58	Unconfirmed
B*13:02:09	Unconfirmed	B*13:19	Unconfirmed	B*13:39	Unconfirmed		
B*13:02:10	Unconfirmed	B*13:20	Unconfirmed	B*13:40	Unconfirmed		
B*13:02:11	Unconfirmed	B*13:21	Unconfirmed	B*13:41	Unconfirmed		
B*13:02:12	Unconfirmed	<b>B*13:22:01</b>	<b>Confirmed</b>	B*13:42	Unconfirmed		
B*13:02:13	Unconfirmed	B*13:22:02	Unconfirmed	B*13:43	Unconfirmed		
<b>B*13:03</b>	<b>Confirmed</b>	B*13:23	Unconfirmed	B*13:44	Unconfirmed		

<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-July-12, release 3.9.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

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**RESOLUTION IN HOMO- AND HETEROZYGOTES**

A total of 74 alleles generate 47 amplification patterns that can be combined in 1128 homozygous and heterozygous combinations. 588 of these genotypes do not give rise to unique amplification patterns. The different lengths of the specific PCR products were not considered in these calculations.

-++-----	-+-----	-----	*13:09, *13:09 = *13:09, *13:58
+-----+	--+-----	-----	*13:04, *13:04 = *13:04, *13:46
+-----+	-----	-----+	*13:03, *13:48 = *13:48, *13:48
+-----+	-----	-----	*13:03, *13:45 = *13:45, *13:45
+-----+	-----	-----	*13:03, *13:22:02 = *13:22:02, *13:22:02
++-----	-----	-----	*13:02:01, *13:02:01 = *13:02:01, *13:58
-++-----	-+-----	-----	*13:09, *13:39 = *13:39, *13:58
+-----+	-----+	-----	*13:03, *13:22:01 = *13:22:01, *13:22:01 = *13:22:01, *13:22:02
++-----	--+-----	-----	*13:04, *13:10 = *13:10, *13:46
++-----	-----	-----+	*13:02:01, *13:37 = *13:37, *13:37 = *13:37, *13:58
++-----	-----	-----+	*13:02:01, *13:30 = *13:30, *13:30 = *13:30, *13:58
++-----	-----	--+-----	*13:02:01, *13:34 = *13:34, *13:34 = *13:34, *13:58
++-----	-----	+-----	*13:02:01, *13:32 = *13:32, *13:32 = *13:32, *13:58
++-----	-----	+-----	*13:02:01, *13:27 = *13:27, *13:27 = *13:27, *13:58
++-----	-----+	-----	*13:02:01, *13:15 = *13:15, *13:15 = *13:15, *13:58
++-----	-----+	-----	*13:02:01, *13:14 = *13:14, *13:14 = *13:14, *13:58
++-----	-----+	-----	*13:02:01, *13:35 = *13:35, *13:35 = *13:35, *13:58
++-----	-----+	-----	*13:02:01, *13:12 = *13:02:01, *13:19 = *13:12, *13:19 = *13:12, *13:58 = *13:19, *13:19 = *13:19, *13:58
++-----	-----+	-----	*13:02:01, *13:11 = *13:11, *13:58
++-----	--+-----	-----	*13:02:01, *13:10 = *13:10, *13:58
++-----	+-----	-----	*13:02:01, *13:08Q = *13:08Q, *13:08Q = *13:08Q, *13:58
++-----+	-----	-----	*13:02:01, *13:18 = *13:18, *13:18 = *13:18, *13:58
++-----+	-----	-----	*13:02:01, *13:06 = *13:06, *13:58
++-----+	-----	-----	*13:02:01, *13:46 = *13:02:01, *13:56N = *13:46, *13:56N = *13:46, *13:58 = *13:56N, *13:56N = *13:56N, *13:58
++-----	-----	-----	*13:02:01, *13:03 = *13:02:01, *13:45 = *13:03, *13:58 = *13:45, *13:58
+++-----	-----	-----+	*13:01:01, *13:25 = *13:25, *13:25
+++-----	-----	-----+	*13:01:01, *13:29 = *13:29, *13:29
+++-----	-----	-----+	*13:01:01, *13:36 = *13:36, *13:36
+++-----	-----	--+-----	*13:01:01, *13:28 = *13:28, *13:28
+++-----	-----	+-----	*13:01:01, *13:43 = *13:43, *13:43
+++-----	-----+	-----	*13:01:01, *13:17 = *13:17, *13:17
+++-----	-----+	-----	*13:01:01, *13:23 = *13:23, *13:23
+++-----	-----+	-----	*13:01:01, *13:13 = *13:13, *13:13
+++-----	-----+	-----	*13:01:01, *13:12 = *13:01:01, *13:52 = *13:12, *13:52 = *13:52, *13:52
+++-----	--+-----	-----	*13:01:01, *13:10 = *13:01:01, *13:26 = *13:10, *13:26 = *13:26, *13:26
+++-----+	-----	-----	*13:01:01, *13:07N = *13:07N, *13:07N
+++-----	-----	-----	*13:01:01, *13:03 = *13:01:01, *13:22:02
+++-----	-----	-----	*13:01:01, *13:02:01 = *13:01:01, *13:58
++-----	-----	-----++	*13:02:01, *13:40 = *13:30, *13:40 = *13:40, *13:40 = *13:40, *13:58
++-----	-----	--+-----	*13:02:01, *13:44 = *13:32, *13:37 = *13:32, *13:44 = *13:37, *13:44 = *13:44, *13:44 = *13:44, *13:58
++-----	-----	-----+	*13:12, *13:37 = *13:19, *13:37
++-----	-----	-----+	*13:12, *13:30 = *13:19, *13:30
++-----	-----	--+-----	*13:12, *13:34 = *13:19, *13:34
++-----	-----	+-----	*13:12, *13:32 = *13:19, *13:32
++-----	-----	+-----	*13:12, *13:27 = *13:19, *13:27
++-----	-----	-----+	*13:12, *13:15 = *13:15, *13:19



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++++-----	-----++-	-----	*13:12, *13:14 = *13:14, *13:19
++++-----	-----++-	-----	*13:12, *13:35 = *13:19, *13:35
++++-----	-+-----	-----	*13:09, *13:12 = *13:09, *13:19
++++-----	+-----	-----+	*13:02:01, *13:42 = *13:08Q, *13:37 = *13:08Q, *13:42 = *13:37, *13:42 = *13:42, *13:42 = *13:42, *13:58
++++-----	+-----	-----	*13:08Q, *13:12 = *13:08Q, *13:19
++++-----	-----+	-----	*13:12, *13:18 = *13:18, *13:19
++++-----	-----	-----+	*13:37, *13:46 = *13:37, *13:56N
++++-----	-----	-----+	*13:30, *13:46 = *13:30, *13:56N
++++-----	-----	-----+	*13:34, *13:46 = *13:34, *13:56N
++++-----	-----	-----+	*13:32, *13:46 = *13:32, *13:56N
++++-----	-----	-----+	*13:27, *13:46 = *13:27, *13:56N
++++-----	-----+	-----	*13:15, *13:46 = *13:15, *13:56N
++++-----	-----+	-----	*13:14, *13:46 = *13:14, *13:56N
++++-----	-----+	-----	*13:35, *13:46 = *13:35, *13:56N
++++-----	-----+	-----	*13:12, *13:56N = *13:19, *13:46 = *13:19, *13:56N
++++-----	-+-----	-----	*13:02:01, *13:04 = *13:04, *13:56N = *13:04, *13:58 = *13:10, *13:56N
++++-----	-+-----	-----	*13:09, *13:46 = *13:09, *13:56N
++++-----	+-----	-----	*13:08Q, *13:46 = *13:08Q, *13:56N
++++-----	-----	-----	*13:18, *13:46 = *13:18, *13:56N
++++-----	-----	-----+	*13:02:01, *13:16 = *13:02:01, *13:48 = *13:03, *13:16 = *13:16, *13:16 = *13:16, *13:45 = *13:16, *13:48 = *13:16, *13:58 = *13:48, *13:58
++++-----	-----	-----+	*13:03, *13:37 = *13:37, *13:45
++++-----	-----	-----+	*13:03, *13:30 = *13:30, *13:45
++++-----	-----	-----+	*13:03, *13:34 = *13:34, *13:45
++++-----	-----	-----+	*13:03, *13:32 = *13:32, *13:45
++++-----	-----	-----+	*13:03, *13:27 = *13:27, *13:45
++++-----	-----+	-----	*13:03, *13:15 = *13:15, *13:45
++++-----	-----+	-----	*13:03, *13:14 = *13:14, *13:45
++++-----	-----+	-----	*13:03, *13:35 = *13:35, *13:45
++++-----	-----+	-----	*13:03, *13:19 = *13:19, *13:45
++++-----	-+-----	-----	*13:03, *13:09 = *13:09, *13:45
++++-----	+-----	-----	*13:03, *13:08Q = *13:08Q, *13:45
++++-----	-----	-----	*13:02:01, *13:41 = *13:03, *13:18 = *13:03, *13:41 = *13:18, *13:41 = *13:18, *13:45 = *13:41, *13:45 = *13:41, *13:58
++++-----	-----	-----	*13:03, *13:56N = *13:45, *13:56N
++++-----	-----+	-----+	*13:12, *13:25 = *13:25, *13:52
++++-----	-----+	-----+	*13:12, *13:29 = *13:29, *13:52
++++-----	-----+	-----+	*13:12, *13:36 = *13:36, *13:52
++++-----	-----+	-----+	*13:12, *13:28 = *13:28, *13:52
++++-----	-----+	-----+	*13:12, *13:43 = *13:43, *13:52
++++-----	-----+	-----	*13:12, *13:17 = *13:17, *13:52
++++-----	-----+	-----	*13:12, *13:23 = *13:23, *13:52
++++-----	-----+	-----	*13:12, *13:13 = *13:13, *13:52
++++-----	-----+	-----	*13:10, *13:25 = *13:25, *13:26
++++-----	-----+	-----	*13:10, *13:29 = *13:26, *13:29
++++-----	-----+	-----	*13:10, *13:36 = *13:26, *13:36
++++-----	-----+	-----	*13:10, *13:36 = *13:26, *13:36
++++-----	-----+	-----	*13:10, *13:28 = *13:26, *13:28
++++-----	-----+	-----	*13:10, *13:43 = *13:26, *13:43
++++-----	-----+	-----	*13:10, *13:17 = *13:17, *13:26
++++-----	-----+	-----	*13:10, *13:23 = *13:23, *13:26
++++-----	-----+	-----	*13:10, *13:13 = *13:13, *13:26
++++-----	-----+	-----	*13:10, *13:52 = *13:12, *13:26 = *13:26, *13:52
++++-----	-+-----	-----	*13:01:01, *13:21 = *13:13, *13:21 = *13:13, *13:39 = *13:21, *13:21 = *13:21, *13:39
++++-----	-+-----	-----	*13:12, *13:39 = *13:39, *13:52

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+++-----	++-----	-----	*13:10, *13:39 = *13:26, *13:39
+++-----+	-----+	-----	*13:07N, *13:12 = *13:07N, *13:52
+++-----+	-----+	-----	*13:07N, *13:10 = *13:07N, *13:26
+++-----+	-----+	-----	*13:01:01, *13:04 = *13:04, *13:26 = *13:26, *13:46
+++-----+	-----+	-----+	*13:01:01, *13:20 = *13:01:01, *13:48 = *13:03, *13:20 = *13:20, *13:20 = *13:20, *13:22:02 = *13:20, *13:48
+++-----	-----	-----+	*13:03, *13:25 = *13:22:02, *13:25
+++-----	-----	-----+	*13:03, *13:29 = *13:22:02, *13:29
+++-----	-----	-----+	*13:03, *13:36 = *13:22:02, *13:36
+++-----	-----	-----+	*13:03, *13:28 = *13:22:02, *13:28
+++-----	-----	-----+	*13:03, *13:43 = *13:22:02, *13:43
+++-----	-----	-----+	*13:03, *13:17 = *13:17, *13:22:02
+++-----	-----	-----+	*13:01:01, *13:22:01 = *13:03, *13:23 = *13:22:01, *13:23 = *13:22:02, *13:23
+++-----	-----	-----	*13:03, *13:13 = *13:13, *13:22:02
+++-----	-----	-----	*13:03, *13:52 = *13:22:02, *13:52
+++-----	-----	-----	*13:03, *13:26 = *13:10, *13:22:02 = *13:22:02, *13:26
+++-----	-----	-----	*13:03, *13:39 = *13:22:02, *13:39
+++-----	-----	-----	*13:03, *13:07N = *13:07N, *13:22:02
++++-----	-----	-----+	*13:02:01, *13:25 = *13:25, *13:58
++++-----	-----	-----+	*13:01:01, *13:30 = *13:02:01, *13:29 = *13:29, *13:30 = *13:29, *13:58
++++-----	-----	-----+	*13:02:01, *13:36 = *13:36, *13:58
++++-----	-----	-----+	*13:01:01, *13:32 = *13:02:01, *13:28 = *13:28, *13:32 = *13:28, *13:58
++++-----	-----	-----+	*13:01:01, *13:27 = *13:02:01, *13:43 = *13:27, *13:43 = *13:43, *13:58
++++-----	-----	-----+	*13:01:01, *13:15 = *13:02:01, *13:17 = *13:15, *13:17 = *13:17, *13:58
++++-----	-----	-----+	*13:01:01, *13:14 = *13:02:01, *13:23 = *13:14, *13:23 = *13:23, *13:58
++++-----	-----	-----+	*13:01:01, *13:35 = *13:02:01, *13:13 = *13:13, *13:35 = *13:13, *13:58
++++-----	-----	-----+	*13:01:01, *13:19 = *13:02:01, *13:52 = *13:19, *13:52 = *13:52, *13:58
++++-----	-----	-----+	*13:02:01, *13:26 = *13:26, *13:58
++++-----	-----	-----+	*13:01:01, *13:09 = *13:02:01, *13:39
++++-----	-----	-----+	*13:01:01, *13:18 = *13:02:01, *13:07N = *13:07N, *13:18 = *13:07N, *13:58
++++-----	-----	-----+	*13:01:01, *13:45 = *13:02:01, *13:22:02 = *13:22:02, *13:58
++-----	-----	-----+	*13:12, *13:40 = *13:19, *13:40
++-----	-----	-----+	*13:12, *13:44 = *13:19, *13:44
++-----	-----	-----+	*13:08Q, *13:44 = *13:32, *13:42 = *13:42, *13:44
++-----	-----	-----+	*13:12, *13:42 = *13:19, *13:42
++-----	-----	-----+	*13:40, *13:46 = *13:40, *13:56N
++-----	-----	-----+	*13:44, *13:46 = *13:44, *13:56N
++-----	-----	-----+	*13:42, *13:46 = *13:42, *13:56N
++-----	-----	-----+	*13:16, *13:37 = *13:37, *13:48
++-----	-----	-----+	*13:16, *13:30 = *13:30, *13:48
++-----	-----	-----+	*13:03, *13:40 = *13:40, *13:45
++-----	-----	-----+	*13:16, *13:34 = *13:34, *13:48
++-----	-----	-----+	*13:16, *13:32 = *13:32, *13:48
++-----	-----	-----+	*13:03, *13:44 = *13:44, *13:45
++-----	-----	-----+	*13:16, *13:27 = *13:27, *13:48
++-----	-----	-----+	*13:15, *13:16 = *13:15, *13:48
++-----	-----	-----+	*13:14, *13:16 = *13:14, *13:48
++-----	-----	-----+	*13:16, *13:35 = *13:35, *13:48
++-----	-----	-----+	*13:12, *13:16 = *13:16, *13:19 = *13:19, *13:48
++-----	-----	-----+	*13:09, *13:16 = *13:09, *13:48
++-----	-----	-----+	*13:08Q, *13:16 = *13:08Q, *13:48
++-----	-----	-----+	*13:03, *13:42 = *13:42, *13:45
++-----	-----	-----+	*13:02:01, *13:31 = *13:03, *13:31 = *13:16, *13:18 = *13:16, *13:31 = *13:16, *13:41 = *13:18, *13:31 = *13:18, *13:48 = *13:31, *13:31 = *13:31, *13:41 = *13:31, *13:45 = *13:31, *13:48 = *13:31, *13:58 = *13:41, *13:48

101.515-12– including *Taq pol.*, IFU-01  
101.515-12u – without *Taq pol.*, IFU-02

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**Lot No.: 37R**

**Lot-specific information**

+++++---+ -----+-----	*13:12, *13:41 = *13:19, *13:41
+++++---+ -----+-----	*13:16, *13:46 = *13:16, *13:56N = *13:48, *13:56N
+++++---+ -----+-----	*13:41, *13:46 = *13:41, *13:56N
+++----- -+---+---+ -----	*13:12, *13:21 = *13:21, *13:52
+++----- -+---+---+ -----	*13:10, *13:21 = *13:21, *13:26
+++----- -+---+---+ -----	*13:20, *13:25 = *13:25, *13:48
+++----- -+---+---+ -----	*13:20, *13:29 = *13:29, *13:48
+++----- -+---+---+ -----	*13:20, *13:36 = *13:36, *13:48
+++----- -+---+---+ -----	*13:20, *13:28 = *13:28, *13:48
+++----- -+---+---+ -----	*13:20, *13:43 = *13:43, *13:48
+++----- -+---+---+ -----	*13:17, *13:20 = *13:17, *13:48
+++----- -+---+---+ -----	*13:20, *13:22:01 = *13:20, *13:23 = *13:23, *13:48
+++----- -+---+---+ -----	*13:13, *13:20 = *13:13, *13:48
+++----- -+---+---+ -----	*13:12, *13:20 = *13:20, *13:52 = *13:48, *13:52
+++----- -+---+---+ -----	*13:10, *13:20 = *13:20, *13:26 = *13:26, *13:48
+++----- -+---+---+ -----	*13:10, *13:22:01 = *13:22:01, *13:26
+++----- -+---+---+ -----	*13:20, *13:39 = *13:39, *13:48
+++----- -+---+---+ -----	*13:03, *13:21 = *13:21, *13:22:02
+++----- -+---+---+ -----	*13:07N, *13:20 = *13:07N, *13:48
++++----- -+---+---+ -----	*13:01:01, *13:40 = *13:25, *13:30 = *13:25, *13:40 = *13:29, *13:40
++++----- -+---+---+ -----	*13:01:01, *13:44 = *13:28, *13:37 = *13:28, *13:44
++++----- -+---+---+ -----	*13:28, *13:30 = *13:29, *13:32
++++----- -+---+---+ -----	*13:27, *13:29 = *13:30, *13:43
++++----- -+---+---+ -----	*13:27, *13:28 = *13:32, *13:43
++++----- -+---+---+ -----	*13:15, *13:29 = *13:17, *13:30
++++----- -+---+---+ -----	*13:15, *13:28 = *13:17, *13:32
++++----- -+---+---+ -----	*13:15, *13:43 = *13:17, *13:27
++++----- -+---+---+ -----	*13:14, *13:29 = *13:23, *13:30
++++----- -+---+---+ -----	*13:14, *13:28 = *13:23, *13:32
++++----- -+---+---+ -----	*13:14, *13:43 = *13:23, *13:27
++++----- -+---+---+ -----	*13:14, *13:17 = *13:15, *13:23
++++----- -+---+---+ -----	*13:13, *13:30 = *13:29, *13:35
++++----- -+---+---+ -----	*13:13, *13:32 = *13:28, *13:35
++++----- -+---+---+ -----	*13:13, *13:27 = *13:35, *13:43
++++----- -+---+---+ -----	*13:13, *13:15 = *13:17, *13:35
++++----- -+---+---+ -----	*13:13, *13:14 = *13:23, *13:35
++++----- -+---+---+ -----	*13:19, *13:29 = *13:30, *13:52
++++----- -+---+---+ -----	*13:19, *13:28 = *13:32, *13:52
++++----- -+---+---+ -----	*13:19, *13:43 = *13:27, *13:52
++++----- -+---+---+ -----	*13:15, *13:52 = *13:17, *13:19
++++----- -+---+---+ -----	*13:14, *13:52 = *13:19, *13:23
++++----- -+---+---+ -----	*13:13, *13:19 = *13:35, *13:52
++++----- -+---+---+ -----	*13:09, *13:29 = *13:30, *13:39
++++----- -+---+---+ -----	*13:09, *13:28 = *13:32, *13:39
++++----- -+---+---+ -----	*13:09, *13:43 = *13:27, *13:39
++++----- -+---+---+ -----	*13:09, *13:17 = *13:15, *13:39
++++----- -+---+---+ -----	*13:09, *13:23 = *13:14, *13:39
++++----- -+---+---+ -----	*13:02:01, *13:21 = *13:09, *13:13 = *13:09, *13:21 = *13:21, *13:35 =
++++----- -+---+---+ -----	*13:21, *13:58 = *13:35, *13:39
++++----- -+---+---+ -----	*13:09, *13:52 = *13:19, *13:39
++++----- -+---+---+ -----	*13:07N, *13:30 = *13:18, *13:29
++++----- -+---+---+ -----	*13:07N, *13:32 = *13:18, *13:28
++++----- -+---+---+ -----	*13:07N, *13:27 = *13:18, *13:43
++++----- -+---+---+ -----	*13:07N, *13:15 = *13:17, *13:18
++++----- -+---+---+ -----	*13:07N, *13:14 = *13:18, *13:23
++++----- -+---+---+ -----	*13:07N, *13:35 = *13:13, *13:18



101.515-12– including *Taq pol.*, IFU-01  
 101.515-12u – without *Taq pol.*, IFU-02

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**Lot No.: 37R****Lot-specific information**

+++++---+ ---+---+ -----	*13:07N, *13:19 = *13:18, *13:52
+++++---+ -+----- -----	*13:07N, *13:09 = *13:18, *13:39
+++++---+ -----+-----+-----	*13:01:01, *13:16 = *13:02:01, *13:20 = *13:16, *13:20 = *13:16, *13:22:02 =
+++++---+ -----+-----+-----	*13:20, *13:45 = *13:20, *13:58
+++++---+ -----+-----+-----	*13:22:02, *13:30 = *13:29, *13:45
+++++---+ -----+-----+-----	*13:22:02, *13:32 = *13:28, *13:45
+++++---+ -----+-----+-----	*13:22:02, *13:27 = *13:43, *13:45
+++++---+ -----+-----+-----	*13:15, *13:22:02 = *13:17, *13:45
+++++---+ -----+-----+-----	*13:02:01, *13:22:01 = *13:14, *13:22:01 = *13:14, *13:22:02 = *13:22:01,
+++++---+ -----+-----+-----	*13:58 = *13:23, *13:45
+++++---+ -----+-----+-----	*13:13, *13:45 = *13:22:02, *13:35
+++++---+ -----+-----+-----	*13:19, *13:22:02 = *13:45, *13:52
+++++---+ -+----- -----	*13:09, *13:22:02 = *13:39, *13:45
+++++---+ -----+-----+-----	*13:01:01, *13:41 = *13:07N, *13:41 = *13:07N, *13:45 = *13:18, *13:22:02 =
+++++---+ -----+-----+-----	*13:22:02, *13:41
++-++---+ -----+-----+-----	*13:16, *13:40 = *13:40, *13:48
++-++---+ -----+-----+-----	*13:16, *13:44 = *13:44, *13:48
++-++---+ +-----+-----+-----	*13:16, *13:42 = *13:42, *13:48
++-++---+ -----+-----+-----	*13:12, *13:31 = *13:19, *13:31
++-++---+ -----+-----+-----	*13:31, *13:46 = *13:31, *13:56N
+++-+---+ -+-----+-----+-----	*13:20, *13:21 = *13:21, *13:48
+++++---+ -----+-----+-----	*13:16, *13:29 = *13:20, *13:30
+++++---+ -----+-----+-----	*13:16, *13:28 = *13:20, *13:32
+++++---+ -----+-----+-----	*13:16, *13:43 = *13:20, *13:27
+++++---+ -----+-----+-----	*13:15, *13:20 = *13:16, *13:17
+++++---+ -----+-----+-----	*13:14, *13:20 = *13:16, *13:22:01 = *13:16, *13:23
+++++---+ -----+-----+-----	*13:13, *13:16 = *13:20, *13:35
+++++---+ -----+-----+-----	*13:16, *13:52 = *13:19, *13:20
+++++---+ -+-----+-----+-----	*13:09, *13:20 = *13:16, *13:39
+++++---+ -----+-----+-----	*13:01:01, *13:31 = *13:07N, *13:16 = *13:07N, *13:31 = *13:18, *13:20 =
+++++---+ -----+-----+-----	*13:20, *13:31 = *13:20, *13:41 = *13:22:02, *13:31
+++++---+ -----+-----+-----	*13:18, *13:22:01 = *13:22:01, *13:41 = *13:23, *13:41
+++++---+ -----+-----+-----	*13:22:01, *13:31 = *13:23, *13:31

\*13:01:01 = \*13:01:01-13:01:06 and 13:50-13:51 and 13:57

\*13:02:01 = \*13:02:01-13:02:13 and 13:47 and 13:54

\*13:06 = \*13:06 and 13:53

\*13:14 = \*13:14 and 13:55

\*13:15 = \*13:15 and \*13:33

\*13:27 = \*13:27 and 13:49N

\*13:34 = \*13:34 and \*13:38

101.515-12– including *Taq* pol., IFU-01  
101.515-12u – without *Taq* pol., IFU-02

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Lot No.: **37R**

Lot-specific information  
**SPECIFICITY TABLE**

**HLA-B\*13 SSP subtyping**

Specificities and sizes of the PCR products of the 24 primer mixes used for  
HLA-B\*13 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-B*13 alleles <sup>3</sup>	Other amplified HLA Class I alleles <sup>4</sup>
<b>1<sup>7</sup></b>	140 bp	<b>800 bp</b>	*13:01:01-13:04, 13:06-13:08Q, 13:10-13:23, 13:25- 13:38, 13:40-13:57	*44:60
<b>2<sup>5,6</sup></b>	95 bp	<b>800 bp</b>	*13:01:01-13:02:13, 13:07N-13:21, 13:23, 13:25-13:44, 13:47, 13:49N- 13:52, 13:54-13:58	*40:91, 51:93
<b>3</b>	245 bp	<b>800 bp</b>	*13:01:01-13:01:06, 13:07N, 13:12, 13:13, 13:17, 13:20- 13:23, 13:25-13:26, 13:28-13:29, 13:36, 13:39, 13:43, 13:50- 13:52, 13:57	*07:12, 07:14, 07:18:01-07:18:02, 07:137, 07:162, 27:19, 27:30, 35:15, 35:33, 35:88, 40:04, 40:30, 40:34, 40:59, 40:64, 40:68, 40:120, 40:129, 40:137, 40:160, 44:16, 44:21, 44:64:01-44:64:02, 44:124, 44:150, 48:17, 57:13, 57:25, 58:37, <b>C*02:62,</b> <b>C*03:34, C*03:142, C*15:42</b>
<b>4</b>	245 bp	1070 bp	*13:02:01-13:02:13, 13:08Q-13:09, 13:14-13:16, 13:18- 13:19, 13:27, 13:30- 13:35, 13:37-13:38, 13:40-13:42, 13:44- 13:45, 13:47, 13:49N, 13:54- 13:56N, 13:58	*07:78, 07:84, 27:14, 27:81, 39:50, 40:06:01:01-40:06:05, 40:44, 40:53, 40:70, 40:75, 40:83, 40:86, 40:93, 40:95-40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:148, 40:159, 40:161-40:162, 40:165, 40:167, 40:177, 40:190, 45:10, 49:07, 51:10, 51:16, 51:31, 51:34, 51:82, 51:93, 52:08, 54:26, 55:09, 55:22, 55:24, 73:01-73:02
<b>5<sup>5,7,10</sup></b>	125 bp, 150 bp, 180 bp	<b>800 bp</b>	*13:03, 13:16, 13:20, 13:22:01- 13:22:02, 13:31, 13:41, 13:45, 13:48	*07:78, 15:42, 15:73, 15:86, 15:224, 35:60, 40:71, 44:10, 45:14, 46:11, 46:18, 51:62, 51:106, 52:25, 54:01:01- 54:03, 54:05N, 54:07-54:08N, 54:10, 54:12-54:13, 54:17-54:27, 55:01:01- 55:03, 55:05, 55:07, 55:09-55:12, 55:15-55:16, 55:18-55:19, 55:21- 55:22, 55:24-55:26, 55:29-55:31, 55:33-55:40, 55:42-55:45,

101.515-12– including *Taq* pol., IFU-01  
 101.515-12u – without *Taq* pol., IFU-02

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## Lot-specific information

				55:47-55:48, 55:52-55:56, 56:01:01-56:02, 56:04, 56:07-56:08, 56:10, 56:13-56:14, 56:16-56:17, 56:19N-56:20:02, 56:23-56:30, 56:33-56:36, 59:01:01:01-59:01:01:02, 59:04-59:05, 82:01-82:03
<b>6<sup>5,9</sup></b>	105 bp	1070 bp	*13:04, 13:46, 13:56N	*15:04, 15:16:01-15:16:03, 15:67, 15:95, 15:137, 15:155, 15:222, 15:254, 35:37, 39:06:01-39:06:02, 39:33-39:34, 39:50, 39:57, 39:62, 39:64, 40:86, 40:159, 45:02, 45:09, 46:32, 49:04-49:05, 50:09, 51:13:01-51:13:02, 51:37, 51:63, 51:92, 51:97, 52:14, 54:14, 55:13, 55:23, 55:32, 56:22, 59:03, 73:01-73:02
<b>7<sup>8</sup></b>	190 bp	1070 bp	*13:06, 13:53	*07:34, 08:01:01-08:05, 08:08N-08:10, 08:12:01-08:13, 08:15-08:20, 08:22-08:24, 08:26-08:27, 08:29-08:36, 08:38-08:39, 08:41-08:48, 08:50-08:73, 08:75-08:78, 08:80-08:86N, 08:88, 08:90-08:94, 14:13, 15:42, 15:83, 15:86, 15:188, 15:224, 15:252, 18:26, 18:61, 35:60, 35:87, 35:157 <sup>w</sup> , 37:12, 38:01:01, 38:01:03-38:07, 38:09-38:21, 38:23-38:28, 38:31-38:40, 39:01:01:01-39:01:01:03, 39:01:03-39:06:02, 39:08-39:14, 39:16, 39:18-39:20, 39:22-39:24:02, 39:26-39:28, 39:30-39:31, 39:34-39:37, 39:39:01-39:39:02, 39:41-39:42, 39:44-39:46, 39:48, 39:51-39:54, 39:56-39:73, 39:75, 40:39, 40:51, 40:163, 40:184, 40:199, 41:01-41:03:02, 41:05-41:09, 41:11-41:16, 41:20, 42:01:01-42:02, 42:04-42:08, 42:10-42:15, 42:17, 46:18, 51:21, 51:36, 51:101, 54:01:01-54:02, 54:04-54:05N, 54:07-54:08N, 54:10-54:13, 54:17-54:25, 54:27, 55:01:01-55:05, 55:07, 55:10-55:13, 55:15-55:21, 55:25-55:26, 55:28-55:40, 55:42-55:45, 55:47-55:50, 55:52-55:56, 56:10, 56:12, 56:23, 58:20, 59:01:01:01-59:03, 59:05, 67:01:01-67:03, 78:07, <b>C*15:24</b>

101.515-12– including *Taq pol.*, IFU-01  
 101.515-12u – without *Taq pol.*, IFU-02

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Lot-specific information

<b>8<sup>8,9,11</sup></b>	185 bp, 225 bp	1070 bp	*13:07N, 13:18, 13:31, 13:41	*07:78, 07:84, 15:04, 15:137, 39:33, 40:161, 46:32, 51:05, 51:29, 51:54, 51:61:01-51:61:02, 51:82, 52:21, 52:24, 54:10, 54:20, 55:09, 55:21, 55:37, 55:52
<b>9<sup>12</sup></b>	130 bp, 230 bp	1070 bp	*13:08Q, 13:42	*51:38
<b>10<sup>5,13</sup></b>	105 bp, 210 bp	<b>800 bp</b>	*13:09, 13:21, 13:39	*07:05:01-07:06, 07:32, 07:34, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 08:01:02, 08:01:13, 08:20, 08:79, 15:53, 15:150, 15:183, 15:188, 15:212, 27:07:01- 27:08, 27:11-27:12, 27:18, 27:20, 27:24, 27:26-27:27, 27:33, 27:40, 27:42-27:44, 27:89, 35:09:02- 35:09:03, 35:18, 35:31, 35:63, 35:84, 35:88, 35:90, 35:150, 35:184, 35:201, 40:01:01-40:16, 40:18-40:40, 40:42- 40:215, 41:01-41:04, 41:06-41:11, 41:13-41:21, 44:09, 44:31, 44:46, 44:75, 44:90, 44:129, 44:131, 45:01- 45:14, 46:10, 47:02, 47:03 <sup>w</sup> , 48:01:01- 48:01:03, 48:03:01-48:07, 48:09- 48:11, 48:13, 48:15-48:16, 48:18- 48:22, 48:24, 48:28, 50:01:01-50:02, 50:04-50:17, 51:01:09, 51:01:21, 51:01:25, 51:10, 51:24:02-51:24:04, 51:81, 54:11, 55:04, 55:08, 55:49, 56:20:02, 56:36, 58:27, 67:03, 73:01- 73:02, 81:01-81:05, <b>C*15:24</b>
<b>11</b>	280 bp	<b>800 bp</b>	*13:04, 13:10, 13:26	*07:09, 07:11, 07:17, 07:162, 08:28, 08:35, 08:37, 08:89, 15:01:01:01- 15:01:04, 15:01:06-15:08, 15:11:01- 15:16:03, 15:18:01-15:21, 15:23- 15:29, 15:31-15:36, 15:38:01-15:40, 15:43-15:44, 15:46-15:47:02, 15:49-15:57, 15:60-15:62, 15:64- 15:72, 15:74-15:76, 15:78:01-15:82, 15:84-15:85, 15:87-15:89, 15:91- 15:98, 15:101-15:129, 15:131-15:132, 15:134-15:136, 15:138-15:149N, 15:151-15:161, 15:163-15:167, 15:169-15:176, 15:178-15:187, 15:189-15:195, 15:197-15:207,

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 101.515-12u – without *Taq* pol., IFU-02

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<b>12<sup>5,8</sup></b>	90 bp	1070 bp	*13:11	*15:18:03, 15:73, 15:224, 39:17, 40:48, 40:71, 51:62, 56:02, 56:04, 56:10, <b>C*02:06, C*02:47</b>
<b>13<sup>5,6,14</sup></b>	100 bp, 180 bp	<b>800 bp</b>	*13:12, 13:19, 13:52	*27:04:01-27:04:03, 27:06, 27:20, 27:24, 27:25, 27:66N, 27:68, 27:69
<b>14</b>	130 bp	1070 bp	*13:13, 13:21, 13:35	*08:83, 40:91, 51:93, 51:122

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<b>15<sup>5,15</sup></b>	105 bp, 205 bp	<b>800 bp</b>	*13:14, 13:22:01, 13:23, 13:55	*07:78, 07:149, 15:73, 18:09, 27:01, 37:10, 38:02:01-38:04, 38:08, 38:15, 38:18, 38:23, 38:29, 38:35, 40:47- 40:48, 40:96, 40:157, 40:201, 44:15, 44:55, 44:103, 44:130, 49:02, 54:22, 56:01:03, 56:20:02
<b>16<sup>5,8,16</sup></b>	90 bp, 205 bp	<b>800 bp</b>	*13:15, 13:17, 13:33	*35:46, 49:09, 51:62, 51:106, 52:25, 56:34
<b>17<sup>17</sup></b>	160 bp, 225 bp	1070 bp	*13:27, 13:43, 13:49N	
<b>18<sup>18</sup></b>	155 bp, 205 bp, 275 bp	1070 bp	*13:28, 13:32, 13:44	
<b>19<sup>19</sup></b>	195 bp, 340 bp	1070 bp	*13:34, 13:38	<b>C*17:08</b>
<b>20<sup>5</sup></b>	90 bp	1070 bp	*13:36	*35:46
<b>21<sup>5,20</sup></b>	120 bp, 180 bp	1070 bp	*13:29-13:30, 13:40	
<b>22<sup>9,21</sup></b>	135 bp, 175 bp	<b>800 bp</b>	*13:25, 13:40	
<b>23<sup>8,9,22</sup></b>	130 bp, 200 bp, 275 bp	1070 bp	*13:37, 13:42, 13:44	*51:38
<b>24<sup>7</sup></b>	170 bp	1070 bp	*13:16, 13:20, 13:31, 13:48	*07:02:01-07:24, 07:26-07:47, 07:49N- 07:50, 07:52-07:154, 07:156-07:162, 08:20, 08:53, 08:79, 14:01:01-14:32, 15:01:01:01-15:01:04, 15:01:06-15:04, 15:06-15:19, 15:21, 15:23-15:30, 15:32-15:40, 15:42-15:47:02, 15:49- 15:50, 15:53-15:54, 15:56-15:58, 15:60-15:74, 15:76-15:82, 15:85, 15:87, 15:89-15:90, 15:92-15:99, 15:101-15:104, 15:106, 15:108- 15:110, 15:112-15:113, 15:115- 15:122, 15:125-15:129, 15:131- 15:135, 15:137-15:144, 15:146- 15:150, 15:152-15:154, 15:156- 15:161, 15:163-15:175, 15:177- 15:178, 15:180-15:184, 15:187, 15:189-15:199, 15:201-15:217, 15:219-15:221, 15:223, 15:225- 15:234, 15:236, 15:238-15:249, 15:251-15:254, 18:15, 18:19, 18:21, 18:30, 18:57, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:18,

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 27:54, 27:63, 27:66N, 27:68-27:69,  
 27:79, 27:86, 27:91-27:92, 35:11:01-  
 35:11:02, 35:14:01-35:14:02, 35:21,  
 35:43:01-35:44, 35:58, 35:67, 35:79,  
 35:86, 35:96, 35:99, 35:102, 35:117-  
 35:118, 35:135, 35:167, 35:185,  
 35:188, 37:07, 37:13, 38:10, 38:32,  
 39:18, 39:35-39:36, 40:05, 40:15-  
 40:16, 40:23, 40:26, 40:28, 40:32,  
 40:51, 40:95, 40:98, 40:148, 40:158,  
 40:161, 40:174, 40:183, 40:198, 44:76,  
 44:79, 44:146, 44:150, 46:01:01-  
 46:05, 46:07N-46:08, 46:10, 46:12,  
 46:14-46:17, 46:20, 46:22-46:24,  
 46:27-46:32, 46:34, 48:05, 48:08,  
 48:15, 48:25, 49:01:01-49:10, 49:12-  
 49:22, 50:01:01-50:02, 50:04-50:17,  
 51:01:01-51:04, 51:06:01-51:07:02,  
 51:11N-51:14, 51:16-51:18, 51:21-  
 51:24:04, 51:26-51:30, 51:32-51:39,  
 51:41N, 51:43, 51:45-51:46, 51:48-  
 51:52, 51:55-51:72, 51:74-51:80,  
 51:82-51:92, 51:94-51:96, 51:98N-  
 51:107, 51:109-51:114, 51:116-  
 51:119, 51:121, 51:123-51:137,  
 52:01:01:01-52:02, 52:04-52:09,  
 52:11-52:18, 52:20-52:27, 52:30,  
 53:06, 53:08:01-53:08:02, 53:28,  
 54:06, 54:20, 55:01:01-55:01:09,  
 55:03, 55:05, 55:09, 55:11, 55:14-  
 55:15, 55:17, 55:21, 55:24-55:25,  
 55:28-55:29, 55:31, 55:33, 55:36,  
 55:38, 55:40, 55:44-55:45, 55:52-  
 55:53, 55:55N-55:56, 56:03, 56:05:01-  
 56:06, 56:21, 56:25, 56:32, 57:09,  
 57:13, 57:22, 57:57, 58:06, 58:08:01-  
 58:08:02, 58:19, 78:01:01-78:03,  
 78:05-78:07

<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\*13 SSP typings.

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

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

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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-B\*13 subtyping.

In addition, wells number 2, 3, 5, 10, 11, 13, 15, 16 and 22 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>For several HLA Class I alleles 1<sup>st</sup> and/or 4<sup>th</sup> exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in these regions are conserved within allelic groups.

<sup>4</sup>Due to the sharing of sequence motifs between HLA-B alleles non-HLA-B\*13 alleles will be amplified by primer mixes 1 to 12, 14 to 16, 20, 23 and 24. In addition, the C\*02:06 and C\*02:47 alleles will be amplified by primer mix 12, the C\*02:62, C\*03:34, C\*03:142 and C\*15:42 alleles will be amplified by primer mix 3, the C\*15:24 allele will be amplified by primer mixes 7 and 10 and the C\*17:08 allele will be amplified by primer mix 19.

<sup>5</sup>HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

<sup>6</sup>Primer mixes 2 and 13 may give rise to a weak band of about 500 bp. This band should be disregarded when interpreting HLA-B\*13 SSP subtypings.

<sup>7</sup>Primer mixes 1, 5 and 24 may give rise to a lower yield of HLA-specific PCR product than the other B\*13 primer mixes.

<sup>8</sup>Primer mixes 7, 8, 12, 16 and 23 may have tendencies of unspecific amplifications.

<sup>9</sup>Primer mixes 6, 8, 22 and 23 have a tendency to giving rise to primer oligomer formation.

<sup>10</sup>Primer mix 5: Specific PCR fragment of 125 bp in the B\*13:22:01-13:22:02, 13:45 and the B\*15:86, 15:224, 35:60, 46:18, 54:01:01-54:02, 54:05N, 54:07-54:08N, 54:10, 54:12-54:13, 54:17-54:19, 54:21-54:27, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:18-55:19, 55:22, 55:26, 55:30, 55:34, 55:35, 55:37, 55:39, 55:42-55:43, 55:47-55:48, 55:56, 56:10, 56:19N, 56:23, 59:01:01:01-59:01:01:02, and 59:05 alleles. Specific PCR fragment of 150 bp in the B\*13:16, 13:20, 13:31 and 13:41 alleles. Specific PCR fragment of 125 and 150 bp in the B\*07:78, 15:42, 54:20, 55:01:01-55:01:09, 55:03, 55:05, 55:09, 55:11, 55:15, 55:21, 55:24-55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:40 and 55:44-55:45, 55:52-55:55N alleles. Specific PCR fragments of 125 and 180 bp in the B\*13:03 and the B\*40:71, 44:10, 45:14, 46:11, 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, 56:26-56:30, 56:33-56:36, 59:04 and 82:01-82:03 alleles. Specific PCR fragments of 125, 150 and 180 bp in the B\*13:48, 15:73, 51:62, 51:106, 52:25 and 56:25 alleles. All bands may not always be visible.

<sup>11</sup>Primer mix 8: Specific PCR fragment of 185 bp in the B\*13:07N allele. Specific PCR fragment of 225 bp in the B\*13:18, 13:31 and 13:41 and the B\*07:78, 07:84, 15:04, 15:137, 39:33, 40:161, 46:32, 51:05, 51:29, 51:54, 51:61:01-51:61:02, 51:82, 52:21, 52:24, 54:10, 54:20, 55:09, 55:21, 55:37 and 55:52 alleles.

<sup>12</sup>Primer mix 9: Specific PCR fragment of 130 bp in the B\*13:42 and the B\*51:38 alleles. Specific PCR fragment of 230 bp in the B\*13:08Q allele.

<sup>13</sup>Primer mix 10: Specific PCR fragment of 105 bp in the B\*13:21 and the B\*07:05:01-07:06, 07:32, 07:34, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 08:01:02, 08:01:13, 08:20, 08:79, 15:150, 15:188, 27:07:01-27:07:02, 27:11, 27:20, 27:24, 27:27, 27:43, 35:09:02-35:09:03, 35:18, 35:31, 35:88, 40:01:11, 40:10:01-40:10:02, 40:12-40:13, 40:19, 40:21, 40:47,



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40:58, 40:76, 40:96, 40:109-40:110, 40:117, 40:137, 40:149, 40:157, 40:188, 40:201, 40:215, 44:31, 48:01:01-48:01:03, 48:03:01-48:07, 48:09-48:11, 48:13, 48:15-48:16, 48:18-48:22, 48:24, 48:28, 51:01:09, 51:01:21, 51:01:25, 51:10, 51:24:02-51:24:04, 51:81, 54:11, 55:04, 55:08, 55:49, 56:20:02, 58:27, 67:03 and 81:01-81:05 and in the C\*15:24 alleles. Specific PCR fragment of 210 bp in the B\*13:09 and 13:39 and the B\*15:53, 15:183, 15:212, 27:08, 27:12, 27:18, 27:26, 27:40, 27:42, 27:44, 27:89, 35:63, 35:84, 35:90, 35:150, 40:01:14, 40:01:21, 40:02:10, 40:02:13, 40:06:05, 40:03, 40:09, 40:14:01-40:14:02, 40:18, 40:20, 40:24, 40:26, 40:28, 40:31-40:33, 40:42, 40:44, 40:52, 40:59-40:60, 40:71-40:72:01, 40:77, 40:78, 40:87:01, 40:89, 40:95, 40:98, 40:120-40:121, 40:124:01-40:124:02, 40:131, 40:136, 40:158-40:159, 40:172, 40:180-40:181, 40:184, 41:01-41:04, 41:06-41:07, 41:09-41:11, 41:13-41:21, 44:09, 44:46, 44:75, 44:90, 44:129, 44:131, 45:01-45:14, 46:10, 47:02, 47:03<sup>w</sup>, 50:01:01-50:02, 50:04-50:17, 56:36 and 73:01-73:02 alleles. Specific PCR fragments of 105 and 210 bp in the B\*27:33 and the B\*40:01:01-40:01:10, 40:01:12-40:01:13, 40:01:15-40:01:20, 40:01:22-40:02:09, 40:02:11-40:02:12, 40:02:14-40:02:15, 40:04-40:06:04, 40:07-40:08, 40:11:01-40:11:02, 40:14:03-40:16, 40:22N-40:23, 40:25, 40:27:01-40:27:02, 40:29-40:30, 40:34-40:40, 40:43, 40:45-40:46, 40:48-40:51, 40:53-40:57, 40:61-40:70, 40:72:02-40:75, 40:79-40:86, 40:87:02-40:88, 40:90-40:94, 40:97, 40:99-40:108, 40:111-40:116, 40:118N-40:119, 40:122-40:123, 40:125-40:130, 40:132-40:135, 40:138-40:148, 40:150-40:156, 40:160-40:171, 40:173-40:179, 40:182-40:183, 40:185-40:186, 40:189-40:200, 40:202-40:214 and 41:08 alleles. Both bands may not always be visible.

<sup>14</sup>Primer mix 13: Specific PCR fragment of 100 bp in the B\*13:19 and 13:52 and in the B\*27:04:01-27:04:03, 27:06, 27:20, 27:24, 27:25, 27:66N, 27:68, 27:69 alleles. Specific PCR fragment of 180 bp in the B\*13:12 allele.

<sup>15</sup>Primer mix 15: Specific PCR fragment of 105 bp in the B\*13:22:01 and the B\*07:78, 15:73, 40:48, 54:22, 56:01:03 and 56:20:02 alleles. Specific PCR fragment of 250 bp in the B\*13:14, 13:23 and 13:55 and the B\*07:149, 18:09, 27:01, 37:10, 38:02:01-38:04, 38:08, 38:15, 38:18, 38:23, 38:29, 38:35, 40:47, 40:96, 40:157, 40:201, 44:15, 44:55, 44:103, 44:130 and 49:02 alleles.

<sup>16</sup>Primer mix 16: Specific PCR fragment of 90 bp in the B\*13:17 and 13:33 and the B\*35:46 alleles. Specific PCR fragment of 205 bp in the B\*13:15 and the B\*49:09, 51:62, 51:106, 52:25 and 56:34 alleles.

<sup>17</sup>Primer mix 17: Specific PCR fragment of 160 bp in the B\*13:49N allele. Specific PCR fragment of 225 bp in the B\*13:27 and 13:43 alleles.

<sup>18</sup>Primer mix 18: Specific PCR fragment of 155 bp in the B\*13:28 allele. Specific PCR fragment of 205 bp in the B\*13:32 allele. Specific PCR fragment of 275 bp in the B\*13:44 allele.

<sup>19</sup>Primer mix 19: Specific PCR fragment of 195 bp in the B\*13:34 and in the C\*17:08 alleles. Specific PCR fragment of 340 bp in the B\*13:38 allele.

<sup>20</sup>Primer mix 21: Specific PCR fragment of 120 bp in the B\*13:29 allele. Specific PCR fragment of 180 bp in the B\*13:30 and 13:40 alleles.

<sup>21</sup>Primer mix 22: Specific PCR fragment of 135 bp in the B\*13:25 allele. Specific PCR fragment of 175 bp in the B\*13:40 allele.

<sup>22</sup>Primer mix 23: Specific PCR fragment of 130 bp in the B\*13:42 and the B\*51:38 alleles. Specific PCR fragment of 200 bp in the B\*13:37 allele. Specific PCR fragment of 275 bp in the B\*13:44 allele.

<sup>w</sup>, may be weakly amplified.

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INTERPRETATION TABLE												
HLA-B*13 SSP subtyping												
Amplification patterns of the B*13:01 to *13:58 alleles												
	Well <sup>9</sup>											
	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	140	95	245	245	125	105	190	185	130	105	280	90
PCR product(s)					150			225	230	210		
					180							
Length of int. pos. control <sup>1</sup>	800	800	800	1070	800	1070	1070	1070	1070	800	800	1070
5'-primer(s) <sup>2</sup>	209	506	355	357	420	357	412	106	357	142	419	369
	5'-ggC <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-ATA <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-TCA <sup>3'</sup>	5'-gTC <sup>3'</sup>	5'-TAC <sup>3'</sup>
								357		412		
								5'-Tgg <sup>3'</sup>		5'-ATA <sup>3'</sup>		
3'-primer(s) <sup>3</sup>	309	559	559	559	506	419	559	251	445	311	3 <sup>rd</sup>	420
	5'-gTg <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-TgC <sup>3'</sup>	5'-Cgg <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-CCC <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-TAT <sup>3'</sup>	5'-gCT <sup>3'</sup>
					527	419		539	548	477		
					5'-CCT <sup>3'</sup>	5'-CgA <sup>3'</sup>		5'-TCC <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-gCg <sup>3'</sup>		
					538	426						
					5'-CCA <sup>3'</sup>	5'-TCT <sup>3'</sup>						
					559							
					5'-Cag <sup>3'</sup>							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
HLA-B allele <sup>4,5</sup>												
*13:01:01-13:01:06, 13:50-13:51, 13:57	1	2	3									
*13:02:01-13:02:13, 13:47, 13:54	1	2		4								
*13:03	1				5							
*13:04	1					6					11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

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INTERPRETATION TABLE												
HLA-B*13 SSP subtyping												
Amplification patterns of the B*13:01 to *13:58 alleles												
Well <sup>9</sup>												
13	14	15	16	17	18	19	20	21	22	23	24	
100	130	105	90	160	155	195	90	120	135	130	170	Length of spec. PCR product(s)
180		250	205	225	205	340		180	175	200		
					275					275		
800	1070	800	800	1070	1070	1070	1070	1070	800	1070	1070	Length of int. pos. control <sup>1</sup>
268	419	97	144	368	209	406	209	160	209	357	527	5'-primer(s) <sup>2</sup>
5'-Agg <sup>3'</sup>	5'-gTA <sup>3'</sup>	5'-TCC <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-ACT <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-TgA <sup>3'</sup>	
420		103	420	385	357	712		229	520			
5'-TTA <sup>3'</sup>		5'-CCT <sup>3'</sup>	5'-TTA <sup>3'</sup>	5'-ggT <sup>3'</sup>	5'-Tgg <sup>3'</sup>	5'-TCT <sup>3'</sup>		5'-TAA <sup>3'</sup>	5'-AgA <sup>3'</sup>			
636		420		441				520				
5'-CAC <sup>3'</sup>		5'-TTA <sup>3'</sup>		5'-TAA <sup>3'</sup>				5'-AgA <sup>3'</sup>				
317	506	309	193	559	323	559	259	309	302	445	3 <sup>rd</sup> I	3'-primer(s) <sup>3</sup>
5'-ggA <sup>3'</sup>	5'-TgA <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-CgT <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-AgC <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-TAT <sup>3'</sup>	
559		486	583		523	916		3 <sup>rd</sup> I	3 <sup>rd</sup> I	515		
5'-CCC <sup>3'</sup>		5'-gCC <sup>3'</sup>	5'-gTg <sup>3'</sup>		5'-ACC <sup>3'</sup>	5'-gAC <sup>3'</sup>		5'-TAT <sup>3'</sup>	5'-TAT <sup>3'</sup>	5'-CCC <sup>3'</sup>		
700					593					593		
5'-AgA <sup>3'</sup>					5'-CgC <sup>3'</sup>					5'-CgC <sup>3'</sup>		
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												HLA-B allele <sup>4</sup>
												*13:01:01-13:01:06, 13:50-13:51, 13:57
												*13:02:01-13:02:13, 13:47, 13:54
												*13:03
												*13:04
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.515-12– including *Taq* pol., IFU-01  
 101.515-12u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **37R**

Lot-specific information

Length of spec. PCR product(s)	140	95	245	245	125	105	190	185	130	105	280	90
					150			225	230	210		
					180							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*13:06, 13:53	1						7					
*13:07N	1	2	3					8				
*13:08Q	1	2		4					9			
*13:09		2		4						10		
*13:10	1	2									11	
*13:11	1	2										12
*13:12, 13:52	1	2	3									
*13:13	1	2	3									
*13:14, 13:55	1	2		4								
*13:15, 13:33 <sup>6</sup>	1	2		4								
*13:16	1	2		4	5							
*13:17	1	2	3									
*13:18	1	2		4				8				
*13:19	1	2		4								
*13:20	1	2	3		5							
*13:21	1	2	3							10		
*13:22:01	1		3		5							
*13:22:02	1		3		5							
*13:23	1	2	3									
*13:25	1	2	3									
*13:26	1	2	3								11	
*13:27, 13:49N <sup>7</sup>	1	2		4								
*13:28	1	2	3									
*13:29	1	2	3									
*13:30	1	2		4								
*13:31	1	2		4	5			8				
*13:32	1	2		4								
*13:34, 13:38 <sup>8</sup>	1	2		4								
*13:35	1	2		4								
*13:36	1	2	3									
*13:37	1	2		4								
*13:39		2	3							10		
*13:40	1	2		4								
*13:41	1	2		4	5			8				
*13:42	1	2		4					9			
*13:43	1	2	3									
*13:44	1	2		4								
*13:45	1			4	5							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.515-12– including *Taq* pol., IFU-01  
 101.515-12u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **37R**

Lot-specific information

100	130	105	90	160	155	195	90	120	135	130	170	Length of spec. PCR product(s)
		250	205	225	205	340		180	175	200		
				275					275			
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												*13:06, 13:53
												*13:07N
												*13:08Q
												*13:09
												*13:10
												*13:11
13												*13:12, 13:52
	14											*13:13
		15										*13:14, 13:55
			16									*13:15, 13:33 <sup>6</sup>
										24		*13:16
			16									*13:17
												*13:18
13												*13:19
										24		*13:20
	14											*13:21
		15										*13:22:01
												*13:22:02
		15										*13:23
								22				*13:25
												*13:26
				17								*13:27, 13:49N <sup>7</sup>
				18								*13:28
								21				*13:29
								21				*13:30
										24		*13:31
				18								*13:32
					19							*13:34, 13:38 <sup>8</sup>
	14											*13:35
						20						*13:36
										23		*13:37
												*13:39
								21	22			*13:40
										23		*13:41
												*13:42
				17								*13:43
					18					23		*13:44
												*13:45
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.515-12– including *Taq* pol., IFU-01  
101.515-12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **37R**

Lot-specific information

Length of spec. PCR product(s)	140	95	245	245	125	105	190	185	130	105	280	90
					150			225	230	210		
					180							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*13:46	1					6						
<b>*13:48</b>	1				5							
*13:56N	1	2		4		6						
*13:58		2		4								
*07:02:01-07:04, 07:07-07:08, 07:10, 07:13, 07:15-07:16, 07:19-07:24, 07:26-07:31, 07:33, 07:35-07:39, 07:41-07:47, 07:49N-07:50, 07:52, 07:54-07:68:03, 07:70-07:77, 07:79, 07:81-07:83, 07:85-07:89, 07:91-07:96:02, 07:98-07:104, 07:106-07:111N, 07:113-07:122, 07:124-07:136, 07:139, 07:141-07:148, 07:150-07:154, 07:156-07:161N, 14:01:01-14:12, 14:14-14:32, 15:09-15:10:02, 15:17:01:01-15:17:02, 15:30, 15:37, 15:45, 15:58, 15:63, 15:77, 15:90, 15:99, 15:133, 15:168, 15:177, 15:196, 15:208, 15:216, 15:229-15:230, 15:233, 15:243, 15:248, 15:253, 27:10, 27:15, 27:21, 27:54, 27:63, 27:79, 27:86, 27:91-27:92, 35:44, 35:96, 35:167, 37:07, 37:13, 44:76, 44:79, 44:146, 48:08, 49:01:01-49:01:03, 49:03, 49:06, 49:08, 49:10, 49:12-49:22, 51:01:01-51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26-51:04, 51:06:01-51:07:02, 51:11N-51:12, 51:14, 51:17-51:18, 51:22-51:24:01, 51:26-51:28, 51:30, 51:32-51:33, 51:35, 51:39, 51:41N, 51:43, 51:46, 51:48-51:52, 51:55-51:60, 51:64-51:72, 51:74-51:80, 51:83-51:91, 51:94-51:96, 51:98N-51:100, 51:102-51:105, 51:107, 51:109-51:114, 51:116-51:119, 51:121, 51:123-51:137, 52:01:01:01-52:02, 52:04-52:07, 52:09, 52:11-52:13, 52:15-52:18, 52:20, 52:22-52:23, 52:26-52:27, 52:30, 56:05:01-56:06, 56:21, 57:09, 57:57, 58:08:01-58:08:02, 78:01:01-78:03, 78:05-78:06												
*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:138, 07:140, 08:79, 15:150, 27:18, 27:40, 40:05, 40:15-40:16, 40:23, 40:26, 40:28, 40:32, 40:98, 40:174, 40:183, 40:198, 48:05, 48:15, 50:01:01-50:02, 50:04-50:08, 50:10-50:17, 51:01:09, 51:01:21, 51:01:25, 51:24:02-51:24:04										10		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.515-12– including *Taq* pol., IFU-01  
 101.515-12u – without *Taq* pol., IFU-02

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Lot No.: **37R**

Lot-specific information

100	130	105	90	160	155	195	90	120	135	130	170	Length of spec. PCR product(s)
180		250	205	225	205	340		180	175	200		
					275					275		
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												*13:46
											24	*13:48
												*13:56N
												*13:58
											24	*07:02:01-07:04, 07:07-07:08, 07:10, 07:13, 07:15-07:16, 07:19-07:24, 07:26-07:31, 07:33, 07:35-07:39, 07:41-07:47, 07:49N-07:50, 07:52, 07:54-07:68:03, 07:70-07:77, 07:79, 07:81-07:83, 07:85-07:89, 07:91-07:96:02, 07:98-07:104, 07:106-07:111N, 07:113-07:122, 07:124-07:136, 07:139, 07:141-07:148, 07:150-07:154, 07:156-07:161N, 14:01:01-14:12, 14:14-14:32, 15:09-15:10:02, 15:17:01:01-15:17:02, 15:30, 15:37, 15:45, 15:58, 15:63, 15:77, 15:90, 15:99, 15:133, 15:168, 15:177, 15:196, 15:208, 15:216, 15:229-15:230, 15:233, 15:243, 15:248, 15:253, 27:10, 27:15, 27:21, 27:54, 27:63, 27:79, 27:86, 27:91-27:92, 35:44, 35:96, 35:167, 37:07, 37:13, 44:76, 44:79, 44:146, 48:08, 49:01:01-49:01:03, 49:03, 49:06, 49:08, 49:10, 49:12-49:22, 51:01:01-51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26-51:04, 51:06:01-51:07:02, 51:11N-51:12, 51:14, 51:17-51:18, 51:22-51:24:01, 51:26-51:28, 51:30, 51:32-51:33, 51:35, 51:39, 51:41N, 51:43, 51:46, 51:48-51:52, 51:55-51:60, 51:64-51:72, 51:74-51:80, 51:83-51:91, 51:94-51:96, 51:98N-51:100, 51:102-51:105, 51:107, 51:109-51:114, 51:116-51:119, 51:121, 51:123-51:137, 52:01:01:01-52:02, 52:04-52:07, 52:09, 52:11-52:13, 52:15-52:18, 52:20, 52:22-52:23, 52:26-52:27, 52:30, 56:05:01-56:06, 56:21, 57:09, 57:57, 58:08:01-58:08:02, 78:01:01-78:03, 78:05-78:06
											24	*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:138, 07:140, 08:79, 15:150, 27:18, 27:40, 40:05, 40:15-40:16, 40:23, 40:26, 40:28, 40:32, 40:98, 40:174, 40:183, 40:198, 48:05, 48:15, 50:01:01-50:02, 50:04-50:08, 50:10-50:17, 51:01:09, 51:01:21, 51:01:25, 51:24:02-51:24:04
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.515-12– including *Taq* pol., IFU-01  
 101.515-12u – without *Taq* pol., IFU-02

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Lot No.: **37R**

Lot-specific information

Length of spec. PCR product(s)	140	95	245	245	125	105	190	185	130	105	280	90
					150			225	230	210		
					180							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:138, 07:140, 08:79, 15:150, 27:18, 27:20, 27:24, 27:40, 40:05, 40:15-40:16, 40:23, 40:26, 40:28, 40:32, 40:98, 40:174, 40:183, 40:198, 48:05, 48:15, 50:01:01-50:02, 50:04-50:08, 50:10-50:17, 51:01:09, 51:01:21, 51:01:25, 51:24:02-51:24:04										10		
*07:09, 07:11, 07:17, 15:01:01:01-15:01:04, 15:01:06-15:03:03, 15:06-15:08, 15:11:01-15:15, 15:18:01-15:18:02, 15:18:04-15:19, 15:21, 15:23-15:29, 15:32-15:36, 15:38:01-15:40, 15:43-15:44, 15:46-15:47:02, 15:49-15:50, 15:54, 15:56-15:57, 15:60-15:62, 15:64-15:66, 15:68-15:72, 15:74, 15:76, 15:78:01-15:82, 15:85, 15:87, 15:89, 15:92-15:94N, 15:96-15:98, 15:101-15:104, 15:106, 15:108-15:110, 15:112-15:113, 15:115-15:122, 15:125-15:129, 15:131-15:132, 15:134-15:135, 15:138-15:144, 15:146-15:149N, 15:152-15:154, 15:156-15:161, 15:163-15:167, 15:169-15:175, 15:178, 15:180-15:182N, 15:184, 15:187, 15:189-15:195, 15:197-15:199, 15:201-15:207, 15:209N-15:211, 15:213-15:215, 15:217, 15:219-15:221, 15:223, 15:225-15:228, 15:231-15:232, 15:234, 15:236, 15:238-15:242, 15:244-15:247, 15:249, 15:251, 18:15, 18:19, 18:21, 18:30, 18:57, 35:11:01-35:11:02, 35:14:01-35:14:02, 35:21, 35:43:01, 35:58, 35:67, 35:79, 35:86, 35:99, 35:102, 35:117-35:118, 35:135, 35:185, 35:188, 46:01:01-46:05, 46:07N-46:08, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:27-46:31, 46:34, 48:25, 51:45, 53:06, 53:08:01-53:08:02, 53:28, 54:06, 55:14, 56:03, 56:32, 57:22, 58:06, 58:19											11	
*07:12, 07:14, 07:18:01-07:18:02, 44:150			3									
*07:34, 08:20, 40:51							7			10		
*07:78				4	5			8		10		
*07:84, 51:82				4				8				
*07:137			3							10		
*07:149, 49:02												
*07:162, 57:13			3								11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12



101.515-12– including *Taq* pol., IFU-01  
 101.515-12u – without *Taq* pol., IFU-02

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Lot No.: **37R**

Lot-specific information

100	130	105	90	160	155	195	90	120	135	130	170	Length of spec. PCR product(s)
180		250	205	225	205	340		180	175	200		
					275					275		
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
											24	*07:05:01-07:06, 07:32, 07:40, 07:53, 07:69, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:138, 07:140, 08:79, 15:150, 27:18, 27:20, 27:24, 27:40, 40:05, 40:15-40:16, 40:23, 40:26, 40:28, 40:32, 40:98, 40:174, 40:183, 40:198, 48:05, 48:15, 50:01:01-50:02, 50:04-50:08, 50:10-50:17, 51:01:09, 51:01:21, 51:01:25, 51:24:02-51:24:04
											24	*07:09, 07:11, 07:17, 15:01:01-15:01:04, 15:01:06-15:03:03, 15:06-15:08, 15:11:01-15:15, 15:18:01-15:18:02, 15:18:04-15:19, 15:21, 15:23-15:29, 15:32-15:36, 15:38:01-15:40, 15:43-15:44, 15:46-15:47:02, 15:49-15:50, 15:54, 15:56-15:57, 15:60-15:62, 15:64-15:66, 15:68-15:72, 15:74, 15:76, 15:78:01-15:82, 15:85, 15:87, 15:89, 15:92-15:94N, 15:96-15:98, 15:101-15:104, 15:106, 15:108-15:110, 15:112-15:113, 15:115-15:122, 15:125-15:129, 15:131-15:132, 15:134-15:135, 15:138-15:144, 15:146-15:149N, 15:152-15:154, 15:156-15:161, 15:163-15:167, 15:169-15:175, 15:178, 15:180-15:182N, 15:184, 15:187, 15:189-15:195, 15:197-15:199, 15:201-15:207, 15:209N-15:211, 15:213-15:215, 15:217, 15:219-15:221, 15:223, 15:225-15:228, 15:231-15:232, 15:234, 15:236, 15:238-15:242, 15:244-15:247, 15:249, 15:251, 18:15, 18:19, 18:21, 18:30, 18:57, 35:11:01-35:11:02, 35:14:01-35:14:02, 35:21, 35:43:01, 35:58, 35:67, 35:79, 35:86, 35:99, 35:102, 35:117-35:118, 35:135, 35:185, 35:188, 46:01:01-46:05, 46:07N-46:08, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:27-46:31, 46:34, 48:25, 51:45, 53:06, 53:08:01-53:08:02, 53:28, 54:06, 55:14, 56:03, 56:32, 57:22, 58:06, 58:19
											24	*07:12, 07:14, 07:18:01-07:18:02, 44:150
											24	*07:34, 08:20, 40:51
		15									24	*07:78
											24	*07:84, 51:82
											24	*07:137
		15									24	*07:149, 49:02
											24	*07:162, 57:13
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.515-12– including *Taq pol.*, IFU-01  
 101.515-12u – without *Taq pol.*, IFU-02

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Lot No.: **37R**

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Length of spec. PCR product(s)	140	95	245	245	125	105	190	185	130	105	280	90
					150			225	230	210		
					180							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*08:01:01, 08:01:03-08:01:12, 08:01:14-08:05, 08:08N-08:10, 08:12:01-08:13, 08:15-08:19N, 08:22-08:24, 08:26-08:27, 08:29-08:34, 08:36, 08:38-08:39, 08:41-08:48, 08:50-08:52, 08:54-08:73, 08:75-08:78, 08:80-08:82N, 08:84-08:86N, 08:88, 08:90-08:94, 15:83, 18:26, 18:61, 35:87, 37:12, 38:01:01, 38:01:03-38:01:07, 38:05-38:07, 38:09, 38:11-38:14, 38:16-38:17, 38:19-38:21, 38:24-38:28, 38:31, 38:33-38:34N, 38:36-38:40, 39:01:01:01-39:01:01:03, 39:01:03-39:05:02, 39:08-39:14, 39:16, 39:19:01-39:20, 39:22-39:24:02, 39:26-39:28, 39:30-39:31, 39:37, 39:39:01-39:39:02, 39:41-39:42, 39:44-39:46, 39:48, 39:51-39:54, 39:56, 39:58-39:61, 39:63, 39:65-39:73, 39:75, 41:05, 41:12, 42:01:01-42:02, 42:04-42:08, 42:10-42:15, 42:17, 54:04, 55:20, 55:50, 56:12, 58:20, 59:02, 67:01:01-67:02							7					
*08:01:02, 08:01:13, 15:188, 40:39, 40:163, 40:184, 40:199, 41:01-41:03:02, 41:06-41:09, 41:11, 41:13-41:16, 41:20, 54:11, 55:04, 55:49, 67:03, C*15:24							7		10			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.515-12– including *Taq* pol., IFU-01  
 101.515-12u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **37R**

Lot-specific information

100	130	105	90	160	155	195	90	120	135	130	170	Length of spec. PCR product(s)
180		250	205	225	205	340		180	175	200		
					275					275		
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												*08:01:01, 08:01:03-08:01:12, 08:01:14-08:05, 08:08N-08:10, 08:12:01-08:13, 08:15-08:19N, 08:22-08:24, 08:26-08:27, 08:29-08:34, 08:36, 08:38-08:39, 08:41-08:48, 08:50-08:52, 08:54-08:73, 08:75-08:78, 08:80-08:82N, 08:84-08:86N, 08:88, 08:90-08:94, 15:83, 18:26, 18:61, 35:87, 37:12, 38:01:01, 38:01:03-38:01:07, 38:05-38:07, 38:09, 38:11-38:14, 38:16-38:17, 38:19-38:21, 38:24-38:28, 38:31, 38:33-38:34N, 38:36-38:40, 39:01:01:01-39:01:01:03, 39:01:03-39:05:02, 39:08-39:14, 39:16, 39:19:01-39:20, 39:22-39:24:02, 39:26-39:28, 39:30-39:31, 39:37, 39:39:01-39:39:02, 39:41-39:42, 39:44-39:46, 39:48, 39:51-39:54, 39:56, 39:58-39:61, 39:63, 39:65-39:73, 39:75, 41:05, 41:12, 42:01:01-42:02, 42:04-42:08, 42:10-42:15, 42:17, 54:04, 55:20, 55:50, 56:12, 58:20, 59:02, 67:01:01-67:02
												*08:01:02, 08:01:13, 15:188, 40:39, 40:163, 40:184, 40:199, 41:01-41:03:02, 41:06-41:09, 41:11, 41:13-41:16, 41:20, 54:11, 55:04, 55:49, 67:03, C*15:24
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.515-12– including *Taq* pol., IFU-01  
101.515-12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **37R**

Lot-specific information

Length of spec. PCR product(s)	140	95	245	245	125	105	190	185	130	105	280	90
					150			225	230	210		
					180							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*08:28, 08:37, 08:89, 15:05:01-15:05:02, 15:20, 15:31, 15:51-15:52, 15:55, 15:75, 15:84, 15:88, 15:91, 15:105, 15:107, 15:111N, 15:114, 15:123-15:124, 15:136, 15:145, 15:151, 15:176, 15:179, 15:185-15:186, 15:200, 15:218Q, 15:235, 15:237, 15:250, 18:01:01:01-18:08, 18:10-18:14, 18:17N-18:18, 18:20, 18:22-18:25, 18:27-18:29, 18:31-18:40, 18:42-18:56, 18:58-18:60, 18:62-18:76, 27:41, 35:01:01:01-35:01:31, 35:05:01-35:05:03, 35:07-35:08:05, 35:10, 35:16-35:17, 35:19-35:20:02, 35:23-35:30, 35:32:01-35:32:02, 35:35, 35:40N-35:42:02, 35:45, 35:47-35:54, 35:57, 35:61-35:62, 35:64, 35:66, 35:68:01-35:69, 35:71-35:72, 35:76-35:78, 35:80, 35:82, 35:89, 35:91-35:94, 35:97, 35:100-35:101:02, 35:103-35:105, 35:107-35:108:02, 35:110-35:116, 35:119-35:126, 35:130N-35:134N, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173N-35:178, 35:180, 35:186-35:187, 35:189-35:192, 35:194, 35:196-35:197, 35:200, 35:202-35:203, 39:07, 39:43, 42:09, 44:17, 44:43:01-44:43:02, 44:144, 46:06, 46:09, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02, 46:25-46:26, 46:33, 48:02:01-48:02:02, 48:14, 48:23, 53:01:01-53:03, 53:05, 53:09-53:18, 53:20-53:27, 54:09, 56:09, 56:18, 56:31, 57:01:01-57:01:13, 57:06, 57:08, 57:10-57:11, 57:14-57:16, 57:18-57:21, 57:23-57:24, 57:26-57:27, 57:29-57:31, 57:33-57:38, 57:40-57:41, 57:43-57:45, 57:47-57:56, 57:58, 58:01:01-58:02, 58:04-58:05, 58:07, 58:09-58:18, 58:21-58:26, 58:29-58:33, 58:35-58:36											11	
*08:35							7				11	
*08:53, 14:13, 15:252, 38:10, 38:32, 39:18, 39:35-39:36, 51:21, 51:36, 51:101, 55:17, 55:28, 78:07							7					
*08:83							7					
*15:04, 46:32						6		8			11	
*15:16:01-15:16:03, 15:67, 15:95, 15:254, 49:04-49:05, 51:37, 51:63						6					11	
*15:18:03											11	12
*15:42, 55:01:01-55:01:09, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:53, 55:55N-55:56					5		7					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.515-12– including *Taq* pol., IFU-01  
 101.515-12u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **37R**

Lot-specific information

100	130	105	90	160	155	195	90	120	135	130	170	Length of spec. PCR product(s)
180		250	205	225	205	340		180	175	200		
				275						275		
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												*08:28, 08:37, 08:89, 15:05:01-15:05:02, 15:20, 15:31, 15:51-15:52, 15:55, 15:75, 15:84, 15:88, 15:91, 15:105, 15:107, 15:111N, 15:114, 15:123-15:124, 15:136, 15:145, 15:151, 15:176, 15:179, 15:185-15:186, 15:200, 15:218Q, 15:235, 15:237, 15:250, 18:01:01:01-18:08, 18:10-18:14, 18:17N-18:18, 18:20, 18:22-18:25, 18:27-18:29, 18:31-18:40, 18:42-18:56, 18:58-18:60, 18:62-18:76, 27:41, 35:01:01:01-35:01:31, 35:05:01-35:05:03, 35:07-35:08:05, 35:10, 35:16-35:17, 35:19-35:20:02, 35:23-35:30, 35:32:01-35:32:02, 35:35, 35:40N-35:42:02, 35:45, 35:47-35:54, 35:57, 35:61-35:62, 35:64, 35:66, 35:68:01-35:69, 35:71-35:72, 35:76-35:78, 35:80, 35:82, 35:89, 35:91-35:94, 35:97, 35:100-35:101:02, 35:103-35:105, 35:107-35:108:02, 35:110-35:116, 35:119-35:126, 35:130N-35:134N, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173N-35:178, 35:180, 35:186-35:187, 35:189-35:192, 35:194, 35:196-35:197, 35:200, 35:202-35:203, 39:07, 39:43, 42:09, 44:17, 44:43:01-44:43:02, 44:144, 46:06, 46:09, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02, 46:25-46:26, 46:33, 48:02:01-48:02:02, 48:14, 48:23, 53:01:01-53:03, 53:05, 53:09-53:18, 53:20-53:27, 54:09, 56:09, 56:18, 56:31, 57:01:01-57:01:13, 57:06, 57:08, 57:10-57:11, 57:14-57:16, 57:18-57:21, 57:23-57:24, 57:26-57:27, 57:29-57:31, 57:33-57:38, 57:40-57:41, 57:43-57:45, 57:47-57:56, 57:58, 58:01:01-58:02, 58:04-58:05, 58:07, 58:09-58:18, 58:21-58:26, 58:29-58:33, 58:35-58:36
												*08:35
											24	*08:53, 14:13, 15:252, 38:10, 38:32, 39:18, 39:35-39:36, 51:21, 51:36, 51:101, 55:17, 55:28, 78:07
	14											*08:83
											24	*15:04, 46:32
											24	*15:16:01-15:16:03, 15:67, 15:95, 15:254, 49:04-49:05, 51:37, 51:63
											24	*15:18:03
											24	*15:42, 55:01:01-55:01:09, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:53, 55:55N-55:56
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.515-12– including *Taq* pol., IFU-01  
101.515-12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **37R**

Lot-specific information

Length of spec. PCR product(s)	140	95	245	245	125	105	190	185	130	105	280	90
					150			225	230	210		
					180							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*15:53, 15:183, 15:212, 40:158, 46:10										10	11	
*15:73					5							12
*15:86, 35:60, 46:18, 54:01:01-54:02, 54:05N, 54:07-54:08N, 54:12-54:13, 54:17-54:19, 54:21, 54:23-54:25, 54:27, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:18-55:19, 55:26, 55:30, 55:34-55:35, 55:39, 55:42-55:43, 55:47-55:48, 55:54, 56:23, 59:01:01:01-59:01:01:02, 59:05					5		7					
*15:137						6		8				
*15:155, 15:222, 35:37, 51:97, 54:14, 55:23						6					11	
*15:224, 56:10					5		7					12
*18:09											11	
*27:01, 37:10, 38:08, 38:29, 44:15, 44:55, 44:103, 44:130												
*27:04:01-27:04:03, 27:06, 27:25, 27:66N, 27:68-27:69												
*27:07:01-27:08, 27:11-27:12, 27:26-27:27, 27:33, 27:42-27:44, 27:89, 35:09:02-35:09:03, 35:18, 35:31, 35:84, 35:150, 35:184, 35:201, 40:01:01-40:02:15, 40:07-40:14:03, 40:18-40:19, 40:21-40:22N, 40:24-40:25, 40:27:01-40:27:02, 40:29, 40:31, 40:33, 40:35-40:37, 40:40, 40:42-40:43, 40:45-40:46, 40:49-40:50, 40:54-40:58, 40:61-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:82, 40:84-40:85, 40:87:01-40:90, 40:92, 40:94, 40:97, 40:99-40:102, 40:104, 40:106-40:108, 40:111-40:119, 40:121-40:126, 40:128, 40:130, 40:132-40:136, 40:138-40:147, 40:149-40:156, 40:164, 40:166, 40:168-40:173, 40:175-40:176, 40:178-40:182, 40:185-40:189, 40:191-40:197, 40:200, 40:202-40:215, 41:04, 41:10, 41:17-41:19, 41:21, 44:09, 44:31, 44:46, 44:75, 44:90, 44:129, 44:131, 45:01, 45:03-45:08, 45:11-45:13, 47:02, 48:01:01-48:01:03, 48:03:01-48:04, 48:06-48:07, 48:09-48:11, 48:13, 48:16, 48:18-48:22, 48:24, 48:28, 51:81, 55:08, 58:27, 81:01-81:05										10		
*27:14, 27:81, 51:31				4								
*27:19, 27:30, 35:33, 44:16, 44:21, 44:64:01-44:64:02, 44:124, 48:17, C*02:62, C*03:34, C*03:142, C*15:42			3									
*27:20, 27:24										10		
*35:15, 57:25, 58:37			3								11	
*35:46											11	
*35:63, 35:90, 40:03, 40:20, 40:38, 40:52, 40:60, 40:105										10	11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.515-12– including *Taq* pol., IFU-01  
 101.515-12u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **37R**

Lot-specific information

100	130	105	90	160	155	195	90	120	135	130	170	Length of spec. PCR product(s)
180		250	205	225	205	340		180	175	200		
				275					275			
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
											24	*15:53, 15:183, 15:212, 40:158, 46:10
		15									24	*15:73
												*15:86, 35:60, 46:18, 54:01:01-54:02, 54:05N, 54:07-54:08N, 54:12-54:13, 54:17-54:19, 54:21, 54:23-54:25, 54:27, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:18-55:19, 55:26, 55:30, 55:34-55:35, 55:39, 55:42-55:43, 55:47-55:48, 55:54, 56:23, 59:01:01:01-59:01:01:02, 59:05
											24	*15:137
												*15:155, 15:222, 35:37, 51:97, 54:14, 55:23
												*15:224, 56:10
		15										*18:09
		15										*27:01, 37:10, 38:08, 38:29, 44:15, 44:55, 44:103, 44:130
		13									24	*27:04:01-27:04:03, 27:06, 27:25, 27:66N, 27:68-27:69
												*27:07:01-27:08, 27:11-27:12, 27:26-27:27, 27:33, 27:42-27:44, 27:89, 35:09:02-35:09:03, 35:18, 35:31, 35:84, 35:150, 35:184, 35:201, 40:01:01-40:02:15, 40:07-40:14:03, 40:18-40:19, 40:21-40:22N, 40:24-40:25, 40:27:01-40:27:02, 40:29, 40:31, 40:33, 40:35-40:37, 40:40, 40:42-40:43, 40:45-40:46, 40:49-40:50, 40:54-40:58, 40:61-40:63, 40:65-40:67, 40:69, 40:72:01-40:74, 40:76-40:82, 40:84-40:85, 40:87:01-40:90, 40:92, 40:94, 40:97, 40:99-40:102, 40:104, 40:106-40:108, 40:111-40:119, 40:121-40:126, 40:128, 40:130, 40:132-40:136, 40:138-40:147, 40:149-40:156, 40:164, 40:166, 40:168-40:173, 40:175-40:176, 40:178-40:182, 40:185-40:189, 40:191-40:197, 40:200, 40:202-40:215, 41:04, 41:10, 41:17-41:19, 41:21, 44:09, 44:31, 44:46, 44:75, 44:90, 44:129, 44:131, 45:01, 45:03-45:08, 45:11-45:13, 47:02, 48:01:01-48:01:03, 48:03:01-48:04, 48:06-48:07, 48:09-48:11, 48:13, 48:16, 48:18-48:22, 48:24, 48:28, 51:81, 55:08, 58:27, 81:01-81:05
												*27:14, 27:81, 51:31
												*27:19, 27:30, 35:33, 44:16, 44:21, 44:64:01-44:64:02, 44:124, 48:17, C*02:62, C*03:34, C*03:142, C*15:42
											24	*27:20, 27:24
												*35:15, 57:25, 58:37
			16				20					*35:46
												*35:63, 35:90, 40:03, 40:20, 40:38, 40:52, 40:60, 40:105
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.515-12– including *Taq pol.*, IFU-01  
 101.515-12u – without *Taq pol.*, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **37R**

Lot-specific information

Length of spec. PCR product(s)	140	95	245	245	125	105	190	185	130	105	280	90
					150			225	230	210		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*35:88, 40:04, 40:30, 40:34, 40:64, 40:68, 40:120, 40:129, 40:137, 40:160			3							10		
*35:157							w					
*38:02:01-38:04, 38:15, 38:18, 38:23, 38:35							7					
*39:06:01-39:06:02, 39:34, 39:57, 39:62, 39:64, 55:13, 59:03						6	7					
*39:17, C*02:06, C*02:47												12
*39:33						6		8				
*39:50				4		6						
*40:06:01:01-40:06:05, 40:44, 40:53, 40:70, 40:75, 40:83, 40:93, 40:103, 40:109-40:110, 40:127, 40:131, 40:162, 40:165, 40:167, 40:177, 40:190, 45:10, 51:10				4						10		
*40:47, 40:157, 40:201										10		
*40:48										10		12
*40:59			3							10	11	
*40:71					5					10		12
*40:86, 73:01-73:02				4		6				10		
*40:91		2								10		
*40:95, 40:148				4						10		
*40:96				4						10		
*40:159				4		6				10	11	
*40:161				4				8		10		
*44:10, 46:11, 54:03, 56:01:01-56:01:02, 56:01:04, 56:07- 56:08, 56:13-56:14, 56:16-56:17, 56:19N-56:20:01, 56:24, 56:26-56:30, 56:33, 56:35, 59:04, 82:01-82:03					5							
*44:60	1											
*45:02						6				10		
*45:09						6				10	11	
*45:14, 56:36					5					10		
*47:03										w		
*49:07, 51:16, 51:34, 52:08				4								
*49:09												
*50:09						6				10		
*51:05, 51:54								8				
*51:13:01-51:13:02, 51:92, 52:14						6						
*51:29, 51:61:01-51:61:02, 52:21, 52:24								8				
*51:38									9			
*51:62					5							12
Well No.	1	2	3	4	5	6	7	8	9	10	11	12



101.515-12– including *Taq* pol., IFU-01  
 101.515-12u – without *Taq* pol., IFU-02

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Lot No.: **37R**

Lot-specific information

100	130	105	90	160	155	195	90	120	135	130	170	Length of spec. PCR product(s)
180		250	205	225	205	340		180	175	200		
				275					275			
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												*35:88, 40:04, 40:30, 40:34, 40:64, 40:68, 40:120, 40:129, 40:137, 40:160
												*35:157
		15										*38:02:01-38:04, 38:15, 38:18, 38:23, 38:35
												*39:06:01-39:06:02, 39:34, 39:57, 39:62, 39:64, 55:13, 59:03
												*39:17, C*02:06, C*02:47
												*39:33
												*39:50
												*40:06:01:01-40:06:05, 40:44, 40:53, 40:70, 40:75, 40:83, 40:93, 40:103, 40:109-40:110, 40:127, 40:131, 40:162, 40:165, 40:167, 40:177, 40:190, 45:10, 51:10
		15										*40:47, 40:157, 40:201
		15										*40:48
												*40:59
												*40:71
												*40:86, 73:01-73:02
	14											*40:91
										24		*40:95, 40:148
		15										*40:96
												*40:159
										24		*40:161
												*44:10, 46:11, 54:03, 56:01:01-56:01:02, 56:01:04, 56:07- 56:08, 56:13-56:14, 56:16-56:17, 56:19N-56:20:01, 56:24, 56:26-56:30, 56:33, 56:35, 59:04, 82:01-82:03
												*44:60
												*45:02
												*45:09
												*45:14, 56:36
												*47:03
											24	*49:07, 51:16, 51:34, 52:08
		16									24	*49:09
											24	*50:09
												*51:05, 51:54
											24	*51:13:01-51:13:02, 51:92, 52:14
											24	*51:29, 51:61:01-51:61:02, 52:21, 52:24
										23	24	*51:38
		16									24	*51:62
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.515-12– including *Taq* pol., IFU-01  
101.515-12u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **37R**

Lot-specific information

Length of spec. PCR product(s)	140	95	245	245	125	105	190	185	130	105	280	90
					150			225	230	210		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*51:93		<b>2</b>		<b>4</b>								
*51:106, 52:25					<b>5</b>							
*51:122												
*54:10, 55:37					<b>5</b>		<b>7</b>	<b>8</b>				
*54:20, 55:21, 55:52					<b>5</b>		<b>7</b>	<b>8</b>				
*54:22					<b>5</b>		<b>7</b>					
*54:26, 55:22				<b>4</b>	<b>5</b>							
*55:09				<b>4</b>	<b>5</b>			<b>8</b>				
*55:24				<b>4</b>	<b>5</b>							
*55:32						<b>6</b>	<b>7</b>				<b>11</b>	
*56:01:03					<b>5</b>							
*56:02, 56:04					<b>5</b>							<b>12</b>
*56:20:02					<b>5</b>					<b>10</b>		
*56:22						<b>6</b>						
*56:25					<b>5</b>							
*56:34					<b>5</b>							
<i>C*17:08</i>												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

<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-B\*13 subtyping.

In addition, wells number 2, 3, 5, 10, 11, 13, 15, 16 and 22 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 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> exon, 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 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> or 5<sup>th</sup> exon or the 3<sup>rd</sup> intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>4</sup>The sequence of the B\*1305 allele has been shown to be identical to B\*13:04.

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

<sup>5</sup>HLA-B\*13 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), release 3.9.0, July 2012.

<sup>6</sup>The B\*13:15 and B\*13:33 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 16.

<sup>7</sup>The B\*13:34 and B\*13:38 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 19.

<sup>8</sup>The B\*13:27 and 13:49N alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 17.

101.515-12– including *Taq* pol., IFU-01  
101.515-12u – without *Taq* pol., IFU-02

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Lot No.: **37R**

Lot-specific information

100	130	105	90	160	155	195	90	120	135	130	170	Length of spec. PCR product(s)
180		250	205	225	205	340		180	175	200		
					275					275		
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
	14											*51:93
			16								24	*51:106, 52:25
	14											*51:122
												*54:10, 55:37
											24	*54:20, 55:21, 55:52
		15										*54:22
												*54:26, 55:22
											24	*55:09
											24	*55:24
												*55:32
		15										*56:01:03
												*56:02, 56:04
		15										*56:20:02
												*56:22
											24	*56:25
			16									*56:34
						19						C*17:08
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

<sup>9</sup>Primer mix 5: Specific PCR fragment of 125 bp in the B\*13:22:01-13:22:02, 13:45 and the B\*15:86, 15:224, 35:60, 46:18, 54:01:01-54:02, 54:05N, 54:07-54:08N, 54:10, 54:12-54:13, 54:17-54:19, 54:21-54:27, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:18-55:19, 55:22, 55:26, 55:30, 55:34, 55:35, 55:37, 55:39, 55:42-55:43, 55:47-55:48, 55:56, 56:10, 56:19N, 56:23, 59:01:01:01-59:01:01:02, and 59:05 alleles. Specific PCR fragment of 150 bp in the B\*13:16, 13:20, 13:31 and 13:41 alleles. Specific PCR fragment of 125 and 150 bp in the B\*07:78, 15:42, 54:20, 55:01:01-55:01:09, 55:03, 55:05, 55:09, 55:11, 55:15, 55:21, 55:24-55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:40 and 55:44-55:45, 55:52-55:55N alleles. Specific PCR fragments of 125 and 180 bp in the B\*13:03 and the B\*40:71, 44:10, 45:14, 46:11, 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, 56:26-56:30, 56:33-56:36, 59:04 and 82:01-82:03 alleles. Specific PCR fragments of 125, 150 and 180 bp in the B\*13:48, 15:73, 51:62, 51:106, 52:25 and 56:25 alleles. All bands may not always be visible.

Primer mix 8: Specific PCR fragment of 185 bp in the B\*13:07N allele. Specific PCR fragment of 225 bp in the B\*13:18, 13:31 and 13:41 and the B\*07:78, 07:84, 15:04, 15:137, 39:33, 40:161, 46:32, 51:05, 51:29, 51:54, 51:61:01-51:61:02, 51:82, 52:21, 52:24, 54:10, 54:20, 55:09, 55:21, 55:37 and 55:52

mix 9: Specific PCR fragment of 130 bp in the B\*13:42 and the B\*51:38 alleles. Specific PCR fragment of 230 bp in the B\*13:08Q allele.

Primer mix 10: Specific PCR fragment of 105 bp in the B\*13:21 and the B\*07:05:01-07:06, 07:32, 07:34, 07:40, 07:53, 07:69, 07:78, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 08:01:02, 08:01:13, 08:20, 08:79, 15:150, 15:188, 27:07:01-27:07:02, 27:11, 27:20, 27:24, 27:27, 27:43, 35:09:02-35:09:03, 35:18, 35:31, 35:88, 40:01:11, 40:10:01-40:10:02, 40:12-40:13, 40:19, 40:21, 40:47, 40:58, 40:76, 40:96, 40:109-40:110, 40:117, 40:137, 40:149, 40:157, 40:188, 40:201, 40:215, 44:31, 48:01:01-48:01:03, 48:03:01-48:07, 48:09-48:11, 48:13, 48:15-48:16, 48:18-48:22, 48:24, 48:28, 51:01:09, 51:01:21, 51:01:25, 51:10, 51:24:02-51:24:04, 51:81, 54:11, 55:04, 55:08, 55:49, 56:20:02, 58:27, 67:03 and 81:01-81:05 and in the C\*15:24 alleles. Specific PCR fragment of 210 bp in the B\*13:09 and 13:39 and the B\*15:53, 15:183, 15:212, 27:08, 27:12, 27:18, 27:26, 27:40, 27:42, 27:44, 27:89, 35:63, 35:84, 35:90, 35:150, 40:01:14, 40:01:21, 40:02:10, 40:02:13, 40:06:05, 40:03, 40:09,

101.515-12– including *Taq pol.*, IFU-01  
101.515-12u – without *Taq pol.*, IFU-02

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**Lot No.: 37R****Lot-specific information**

40:14:01-40:14:02, 40:18, 40:20, 40:24, 40:26, 40:28, 40:31-40:33, 40:42, 40:44, 40:52, 40:59-40:60, 40:71-40:72:01, 40:77, 40:78, 40:87:01, 40:89, 40:95, 40:98, 40:120-40:121, 40:124:01-40:124:02, 40:131, 40:136, 40:158-40:159, 40:172, 40:180-40:181, 40:184, 41:01-41:04, 41:06-41:07, 41:09-41:11, 41:13-41:21, 44:09, 44:46, 44:75, 44:90, 44:129, 44:131, 45:01-45:14, 46:10, 47:02, 47:03<sup>w</sup>, 50:01:01-50:02, 50:04-50:17, 56:36 and 73:01-73:02 alleles. Specific PCR fragments of 105 and 210 bp in the B\*27:33 and the B\*40:01:01-40:01:10, 40:01:12-40:01:13, 40:01:15-40:01:20, 40:01:22-40:02:09, 40:02:11-40:02:12, 40:02:14-40:02:15, 40:04-40:06:04, 40:07-40:08, 40:11:01-40:11:02, 40:14:03-40:16, 40:22N-40:23, 40:25, 40:27:01-40:27:02, 40:29-40:30, 40:34-40:40, 40:43, 40:45-40:46, 40:48-40:51, 40:53-40:57, 40:61-40:70, 40:72:02-40:75, 40:79-40:86, 40:87:02-40:88, 40:90-40:94, 40:97, 40:99-40:108, 40:111-40:116, 40:118N-40:119, 40:122-40:123, 40:125-40:130, 40:132-40:135, 40:138-40:148, 40:150-40:156, 40:160-40:171, 40:173-40:179, 40:182-40:183, 40:185-40:186, 40:189-40:200, 40:202-40:214 and 41:08 alleles. Both bands may not always be visible.

Primer mix 13: Specific PCR fragment of 100 bp in the B\*13:19 and 13:52 and in the B\*27:04:01-27:04:03, 27:06, 27:20, 27:24, 27:25, 27:66N, 27:68, 27:69 alleles. Specific PCR fragment of 180 bp in the B\*13:12 allele.

Primer mix 15: Specific PCR fragment of 105 bp in the B\*13:22:01 and the B\*07:78, 15:73, 40:48, 54:22, 56:01:03 and 56:20:02 alleles. Specific PCR fragment of 250 bp in the B\*13:14, 13:23 and 13:55 and the B\*07:149, 18:09, 27:01, 37:10, 38:02:01-38:04, 38:08, 38:15, 38:18, 38:23, 38:29, 38:35, 40:47, 40:96, 40:157, 40:201, 44:15, 44:55, 44:103, 44:130 and 49:02 alleles.

Primer mix 16: Specific PCR fragment of 90 bp in the B\*13:17 and 13:33 and the B\*35:46 alleles. Specific PCR fragment of 205 bp in the B\*13:15 and the B\*49:09, 51:62, 51:106, 52:25 and 56:34 alleles.

Primer mix 17: Specific PCR fragment of 160 bp in the B\*13:49N allele. Specific PCR fragment of 225 bp in the B\*13:27 and 13:43 alleles.

Primer mix 18: Specific PCR fragment of 155 bp in the B\*13:28 allele. Specific PCR fragment of 205 bp in the B\*13:32 allele. Specific PCR fragment of 275 bp in the B\*13:44 allele.

Primer mix 19: Specific PCR fragment of 195 bp in the B\*13:34 and in the C\*17:08 alleles. Specific PCR fragment of 340 bp in the B\*13:38 allele.

Primer mix 21: Specific PCR fragment of 120 bp in the B\*13:29 allele. Specific PCR fragment of 180 bp in the B\*13:30 and 13:40 alleles.

Primer mix 22: Specific PCR fragment of 135 bp in the B\*13:25 allele. Specific PCR fragment of 175 bp in the B\*13:40 allele.

Primer mix 23: Specific PCR fragment of 130 bp in the B\*13:42 and the B\*51:38 alleles. Specific PCR fragment of 200 bp in the B\*13:37 allele. Specific PCR fragment of 275 bp in the B\*13:44 allele.

‘w’, may be weakly amplified.

101.515-12– including *Taq pol.*, IFU-01  
 101.515-12u – without *Taq pol.*, IFU-02

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Lot No.: **37R**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-B*13 SSP subtyping kit</b>																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201072201	201072202	201072203	201072204	201072205	201208006	201208007	201208008	201185409	201072210	201072211	201072212	201208013	201072214	201072215	201208016
	IHWC cell line	B*																		
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*52:01	*73:01	-	-	-	+	-	+	-	-	-	-	+	-	-	-	-	-	-
3	9011 E4181324	*52:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
5	9009 KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*39:01	*51:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*18:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
8	9025 DEU	*35:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
9	9026 YAR	*38:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*54:01		-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*57:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
13	9004 JESTHOM	*27:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*15:01	*15:20	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
15	9075 DKB	*40:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
16	9037 SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
17	9282 CTM3953540	*08:01	*55:01	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*14:01	*56:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*18:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
20	9059 SLE005	*40:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
21	9064 AMALA	*15:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
22	9056 KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*40:02	*56:02	-	-	-	-	+	-	-	-	-	+	-	+	-	-	-	-	-
24	9035 JBUSH	*38:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*58:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
27	9191 CH1007	*07:05	*51:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
28	9320 BEL5GB	*44:02	*44:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*44:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*42:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
32	9297 HAG	*41:02		-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-
33	9098 MT14B	*40:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
34	9104 DHIF	*38:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*44:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*15:01	*35:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*15:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
39	9315 CML	*08:01	*27:05	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*13:02	*46:01	+	+	-	+	-	-	-	-	-	-	+	-	-	-	-	-	-
41	9055 H0301	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*46:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
43	9076 T7526	*46:01		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
44	9057 TEM	*38:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*42:01	*50:01	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*51:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*35:01	*44:03	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-

101.515-12– including *Taq pol.*, IFU-01  
 101.515-12u – without *Taq pol.*, IFU-02

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Lot No.: **37R**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>				<b>Well</b>								
<b>HLA-B*13 SSP subtyping kit</b>												
				17	18	19	20	21	22	23	24	
				Prod. No.:	201208017	201208018	201185419	201208020	201185421	201185422	201185423	201185424
	<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	-	-	-	-	-	-	-	-	-

101.515-12– including *Taq* pol., IFU-01  
 101.515-12u – without *Taq* pol., IFU-02

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

Lot No.: **37R**

Lot-specific information

## CERTIFICATE OF ANALYSIS

### Olerup SSP® HLA-B\*13 SSP

Product number: 101.515-12– including *Taq* pol.  
 101.515-12u – without *Taq* pol.  
 Lot number: 37R  
 Expiry date: 2015-April-01  
 Number of tests: 12  
 Number of wells per test: 24

#### Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2010-722-01	9	2011-854-09	17	2012-080-17
2	2010-722-02	10	2010-722-10	18	2012-080-18
3	2010-722-03	11	2010-722-11	19	2011-854-19
4	2010-722-04	12	2010-722-12	20	2012-080-20
5	2010-722-05	13	2012-080-13	21	2011-854-21
6	2012-080-06	14	2010-722-14	22	2011-854-22
7	2012-080-07	15	2010-722-15	23	2011-854-23
8	2012-080-08	16	2012-080-16	24	2011-854-24

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

No DNAs carrying the alleles to be amplified by primer solutions 9, 13, 14 and 16 to 23 were available. The specificities of the primers in primer mixes 13, 14, 16, 20 and 22 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solutions 9, 18 and 23 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 17, 19 and 21 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 13 and 22, one 5'-primer was not possible to test and in primer solutions 6, 8, 13 and 22 one or two 3'-primers were not possible to test.

Additional primers in primer solutions 5, 8 and 15 were tested by separately adding one 5'-primer and/or one 3'-primer.

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

**Date of approval:** 2012-October-19

**Approved by:**

#### Production Quality Control

101.515-12– including *Taq pol.*, IFU-01  
101.515-12u – without *Taq pol.*, IFU-02

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Lot No.: **37R**

Lot-specific information

## Declaration of Conformity

**Product name:** *Olerup SSP*<sup>®</sup> HLA-B\*13  
**Product number:** 101.515-12  
**Lot number:** 37R

**Intended use:** HLA-B\*13 high resolution histocompatibility testing

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

We, *Olerup SSP AB*, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

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

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

Stockholm, Sweden  
2012-October-19

Ann-Cathrin Jareman  
Head of QA and Regulatory Affairs



101.515-12– including *Taq* pol., IFU-01  
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Lot No.: **37R**

Lot-specific information

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