

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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

Lot No.: **80R**

Lot-specific information
Olerup SSP[®] HLA-B*58

Product number:	101.568-06 – including <i>Taq</i> polymerase 101.568-06u – without <i>Taq</i> polymerase
Lot number:	80R
Expiry date:	2015-September-01
Number of tests:	6
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. 80R.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®]
 HLA-B*58 Lot (50N)**

The HLA-B*58 kit is updated for new alleles to enable separation of:

- Confirmed¹ 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*58 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

The HLA-B*58 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP[®]* HLA-B*58 lot was made (**Lot No. 50N**).

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

Well	5'-primer	3'-primer	rationale
7	-	-	Exchanged positive control primer pair.
15	-	Added	3'-primer added for the B*58:36 allele.
20	Added	Added	New primer pair for the B*58:39N allele

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PRODUCT DESCRIPTION

HLA-B*58 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*58:01 to B*58:39N 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*58' in silver/gray ink.

Well No. 1 is marked with the Lot No. '80R'.

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.

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INTERPRETATION

The interpretation of HLA-B*58 SSP subtypings will be influenced by the B*07, the B*08, the B*13, the B*14, the B*15, the B*18, the B*27, the B*35, the B*37, the B*38, the B*39, the B*40, the B*41, the B*42, the B*44, the B*45, the B*46, the B*47, the B*48, the B*49, the B*50, the B*51, the B*52, the B*53, the B*54, the B*55, the B*56, the B*57, the B*59, the B*67, the B*78, the B*81, the B*82 and the B*83:01 alleles when present on the other haplotype.

In addition, the A*02:01:33 allele will be amplified by primer mix 9, the A*02:42 and A*02:310 alleles will be amplified by primer mix 15, the A*24:64, C*01:06 and C*16:43 alleles will be weakly amplified by primer mix 11, the C*01:35, C*03:17, C*03:71 and C*14:20 alleles will be amplified by primer mix 3, the C*01:49-01:50, C*03:28, C*03:49, C*03:117, C*04:80, C*04:100, C*04:110, C*05:10, C*15:08 alleles will be amplified by primer mix 17, the C*02:60 will be amplified by primer mix 19, the C*03:102 allele will be amplified by primer mix 2, the C*03:119, C*07:165, 07:241, C*07:265 and C*15:02:13 alleles will be amplified by primer mix 7, the C*07:81 and C*07:168 alleles will be amplified by primer mix 5, the C*03:141, C*15:18 and C*15:39 alleles will be amplified by primer mix 10 and the C*15:24 allele will be amplified by primer mix 24.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*58 alleles, i.e. **B*58:01 to B*58:39N** recognized by the HLA Nomenclature Committee in October 2012 will be amplified by the primers in the HLA-B*58 subtyping kit¹.

The HLA-B*58 kit enables separation of the confirmed HLA-B*58 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*58 alleles is listed below.

The HLA-B*58 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 B*58:09 and B*58:24 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 10.

The B*58:21 and B*58:29 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 20.

The HLA-B*58 primer set cannot distinguish the following silent mutations: the B*58:01:01-58:01:09 and the B*58:01:10-58:01:11 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2012-October-14, release 3.10.0, www.ebi.ac.uk/imgt/hla.

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Lot-specific information

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
B*58:01:01	Confirmed	B*58:10N	Unconfirmed	B*58:31N	Unconfirmed
B*58:01:02	Unconfirmed	B*58:11	Confirmed	B*58:32	Unconfirmed
B*58:01:03	Unconfirmed	B*58:12	Confirmed	B*58:33	Unconfirmed
B*58:01:04	Unconfirmed	B*58:13	Unconfirmed	B*58:34	Unconfirmed
B*58:01:05	Unconfirmed	B*58:14	Unconfirmed	B*58:35	Unconfirmed
B*58:01:06	Unconfirmed	B*58:15	Unconfirmed	B*58:36	Unconfirmed
B*58:01:07	Unconfirmed	B*58:16	Unconfirmed	B*58:37	Unconfirmed
B*58:01:08	Confirmed	B*58:17N	Unconfirmed	B*58:38	Unconfirmed
B*58:01:09	Unconfirmed	B*58:18	Confirmed	B*58:39N	Unconfirmed
B*58:01:10	Unconfirmed	B*58:19	Unconfirmed		
B*58:01:11	Unconfirmed	B*58:20	Unconfirmed		
B*58:01:12	Unconfirmed	B*58:21	Confirmed		
B*58:02	Confirmed	B*58:22	Unconfirmed		
B*58:04	Confirmed	B*58:23	Confirmed		
B*58:05	Unconfirmed	B*58:24	Confirmed		
B*58:06	Confirmed	B*58:25	Unconfirmed		
B*58:07	Confirmed	B*58:26	Confirmed		
B*58:08:01	Unconfirmed	B*58:27	Unconfirmed		
B*58:08:02	Confirmed	B*58:28	Unconfirmed		
B*58:09	Unconfirmed	B*58:29	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-October-14, release 3.10.0, www.ebi.ac.uk/imgt/hla.

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RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 50 alleles generate 31 amplification patterns that can be combined in 496 homozygous and heterozygous combinations. 352 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.

++-----	-----+	-----	*58:01:10, *58:11 = *58:01:10, *58:20 = *58:11, *58:11 = *58:11, *58:20
++-----	-----+	-----	*58:01:01, *58:01:01 = *58:01:01, *58:01:10
+-----	-----+	+-----	*58:16, *58:18 = *58:18, *58:18
++-----	-----+	-----+	*58:01:01, *58:27 = *58:01:01, *58:28 = *58:01:10, *58:27 = *58:01:10, *58:28 = *58:27, *58:28 = *58:28, *58:28
++-----	-----+	-----+	*58:01:01, *58:26 = *58:01:01, *58:31N = *58:01:10, *58:26 = *58:01:10, *58:31N = *58:26, *58:31N = *58:31N, *58:31N
++-----	-----+	-----+	*58:01:01, *58:14 = *58:01:10, *58:14 = *58:14, *58:14
++-----	-----+	-----+	*58:01:01, *58:21 = *58:01:01, *58:39N = *58:01:10, *58:21 = *58:01:10, *58:39N = *58:21, *58:21 = *58:21, *58:39N
++-----	-----+	+-----	*58:01:01, *58:17N = *58:01:10, *58:17N = *58:17N, *58:17N
++-----	-----+	+-----	*58:01:01, *58:16 = *58:01:01, *58:22 = *58:01:10, *58:16 = *58:01:10, *58:22 = *58:16, *58:22 = *58:22, *58:22
++-----	-----+	-----	*58:01:01, *58:13 = *58:01:10, *58:13 = *58:13, *58:13
++-----	-----+	-----	*58:01:01, *58:12 = *58:01:01, *58:36 = *58:01:10, *58:12 = *58:01:10, *58:36 = *58:12, *58:12 = *58:12, *58:36
++-----	-----+	-----	*58:01:01, *58:11 = *58:01:01, *58:20
++-----	-----+	-----	*58:01:01, *58:10N = *58:01:10, *58:10N = *58:10N, *58:10N
++-----	+-----	-----	*58:01:01, *58:09 = *58:01:10, *58:09 = *58:09, *58:09
++-----	+-----	-----	*58:01:01, *58:23 = *58:01:10, *58:23 = *58:23, *58:23
++-----	-----+	-----	*58:01:01, *58:05 = *58:01:10, *58:05 = *58:05, *58:05
++-----	-----+	-----	*58:01:01, *58:04 = *58:01:01, *58:15 = *58:01:10, *58:04 = *58:01:10, *58:15 = *58:04, *58:15 = *58:15, *58:15
+-----+	+-----	-----	*58:08:01, *58:08:01 = *58:08:01, *58:08:02
+-----	-----+	+-----	*58:02, *58:25 = *58:25, *58:25
+-----+	-----+	-----	*58:02, *58:07 = *58:07, *58:07
+-----+	-----+	-----	*58:06, *58:06 = *58:06, *58:08:02
++-----	-----+	-----+	*58:26, *58:28 = *58:27, *58:31N = *58:28, *58:31N
++-----	-----+	-----+	*58:14, *58:27 = *58:14, *58:28
++-----	-----+	-----+	*58:14, *58:26 = *58:14, *58:31N
++-----	-----+	-----+	*58:21, *58:27 = *58:21, *58:28 = *58:27, *58:39N = *58:28, *58:39N
++-----	-----+	-----+	*58:21, *58:26 = *58:21, *58:31N = *58:26, *58:39N = *58:31N, *58:39N
++-----	-----+	-----+	*58:14, *58:21 = *58:14, *58:39N
++-----	-----+	+-----+	*58:17N, *58:27 = *58:17N, *58:28
++-----	-----+	+-----+	*58:17N, *58:26 = *58:17N, *58:31N
++-----	-----+	+-----+	*58:17N, *58:21 = *58:17N, *58:39N
++-----	-----+	+-----+	*58:16, *58:28 = *58:22, *58:27 = *58:22, *58:28
++-----	-----+	+-----+	*58:16, *58:31N = *58:22, *58:26 = *58:22, *58:31N
++-----	-----+	+-----+	*58:14, *58:16 = *58:14, *58:22
++-----	-----+	+-----+	*58:16, *58:21 = *58:16, *58:39N = *58:21, *58:22 = *58:22, *58:39N
++-----	-----+	+-----+	*58:01:01, *58:18 = *58:01:10, *58:18 = *58:18, *58:22
++-----	-----+	+-----+	*58:16, *58:17N = *58:17N, *58:22
++-----	-----+	+-----+	*58:13, *58:27 = *58:13, *58:28
++-----	-----+	+-----+	*58:13, *58:26 = *58:13, *58:31N
++-----	-----+	+-----+	*58:13, *58:21 = *58:13, *58:39N

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++-----	-----+--+	+-----	*58:13, *58:16 = *58:13, *58:22
++-----	-----+--	-----+--	*58:12, *58:27 = *58:12, *58:28 = *58:27, *58:36 = *58:28, *58:36
++-----	-----+--	-----+--	*58:12, *58:26 = *58:12, *58:31N = *58:26, *58:36 = *58:31N, *58:36
++-----	-----+--	-----+--	*58:12, *58:14 = *58:14, *58:36
++-----	-----+--	-----+--	*58:12, *58:21 = *58:12, *58:39N = *58:21, *58:36
++-----	-----+--	+-----	*58:12, *58:17N = *58:17N, *58:36
++-----	-----+--	+-----	*58:12, *58:16 = *58:12, *58:22 = *58:16, *58:36 = *58:22, *58:36
++-----	-----+--	-----	*58:12, *58:13 = *58:13, *58:36
++-----	-----+--	-----+--	*58:11, *58:27 = *58:11, *58:28 = *58:20, *58:28
++-----	-----+--	-----+--	*58:11, *58:26 = *58:11, *58:31N = *58:20, *58:31N
++-----	-----+--	-----+--	*58:11, *58:14 = *58:14, *58:20
++-----	-----+--	-----+--	*58:11, *58:21 = *58:11, *58:39N = *58:20, *58:21 = *58:20, *58:39N
++-----	-----+--	+-----	*58:11, *58:17N = *58:17N, *58:20
++-----	-----+--	+-----	*58:11, *58:16 = *58:11, *58:22 = *58:20, *58:22
++-----	-----+--	-----	*58:11, *58:13 = *58:13, *58:20
++-----	-----+--	-----	*58:11, *58:12 = *58:11, *58:36 = *58:12, *58:20 = *58:20, *58:36
++-----	-----+--	-----+--	*58:10N, *58:27 = *58:10N, *58:28
++-----	-----+--	-----+--	*58:10N, *58:26 = *58:10N, *58:31N
++-----	-----+--	-----+--	*58:10N, *58:21 = *58:10N, *58:39N
++-----	-----+--	+-----	*58:10N, *58:16 = *58:10N, *58:22
++-----	-----+--	-----	*58:10N, *58:12 = *58:10N, *58:36
++-----	-----+--	-----	*58:10N, *58:11 = *58:10N, *58:20
++-----	+-----+--	-----+--	*58:09, *58:27 = *58:09, *58:28
++-----	+-----+--	-----+--	*58:09, *58:26 = *58:09, *58:31N
++-----	+-----+--	-----+--	*58:09, *58:21 = *58:09, *58:39N
++-----	+-----+--	+-----	*58:09, *58:16 = *58:09, *58:22
++-----	+-----+--	-----	*58:09, *58:12 = *58:09, *58:36
++-----	+-----+--	-----	*58:09, *58:11 = *58:09, *58:20
++-----	+-----+--	-----+--	*58:23, *58:27 = *58:23, *58:28
++-----	+-----+--	-----+--	*58:23, *58:26 = *58:23, *58:31N
++-----	+-----+--	-----+--	*58:21, *58:23 = *58:23, *58:39N
++-----	+-----+--	+-----	*58:16, *58:23 = *58:22, *58:23
++-----	+-----+--	-----	*58:12, *58:23 = *58:23, *58:36
++-----	+-----+--	-----	*58:11, *58:23 = *58:20, *58:23
++-----	-----+--	-----	*58:01:01, *58:08:02 = *58:01:01, *58:19 = *58:01:10, *58:08:02 = *58:01:10, *58:19 = *58:08:02, *58:19 = *58:19, *58:19
++-----	-----+--	-----+--	*58:05, *58:27 = *58:05, *58:28
++-----	-----+--	-----+--	*58:05, *58:26 = *58:05, *58:31N
++-----	-----+--	-----+--	*58:05, *58:21 = *58:05, *58:39N
++-----	-----+--	+-----	*58:05, *58:16 = *58:05, *58:22
++-----	-----+--	-----	*58:05, *58:12 = *58:05, *58:36
++-----	-----+--	-----	*58:05, *58:11 = *58:05, *58:20
++-----	-----+--	-----+--	*58:04, *58:27 = *58:04, *58:28 = *58:15, *58:27 = *58:15, *58:28
++-----	-----+--	-----+--	*58:04, *58:26 = *58:04, *58:31N = *58:15, *58:26 = *58:15, *58:31N
++-----	-----+--	-----+--	*58:04, *58:14 = *58:14, *58:15
++-----	-----+--	-----+--	*58:04, *58:21 = *58:15, *58:21 = *58:15, *58:39N
++-----	-----+--	+-----	*58:04, *58:17N = *58:15, *58:17N
++-----	-----+--	+-----	*58:04, *58:16 = *58:04, *58:22 = *58:15, *58:16 = *58:15, *58:22
++-----	-----+--	-----	*58:04, *58:13 = *58:13, *58:15
++-----	-----+--	-----	*58:04, *58:12 = *58:12, *58:15 = *58:15, *58:36
++-----	-----+--	-----	*58:04, *58:11 = *58:04, *58:20 = *58:11, *58:15 = *58:15, *58:20
++-----	-----+--	-----	*58:04, *58:10N = *58:10N, *58:15
++-----	+-----+--	-----	*58:04, *58:09 = *58:09, *58:15



101.568-06 – including *Taq* polymerase, IFU-01
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++-+-----	+-----	-----	*58:04, *58:23 = *58:15, *58:23
++-++----	-----	-----	*58:04, *58:05 = *58:05, *58:15
+++-----	--+-----	-----	*58:01:01, *58:02 = *58:01:10, *58:02
+--+---+-	--+-----	-----	*58:02, *58:06 = *58:02, *58:08:02
++-----	-----	+--+-----	*58:18, *58:21 = *58:18, *58:39N
++-----	-----	+--+-----	*58:12, *58:18 = *58:18, *58:36
++-----	-----	-----+	*58:08:02, *58:28 = *58:19, *58:27 = *58:19, *58:28
++-----	-----	-----+	*58:08:02, *58:31N = *58:19, *58:26 = *58:19, *58:31N
++-----	-----	-----	*58:08:02, *58:14 = *58:14, *58:19
++-----	-----	-----	*58:08:02, *58:21 = *58:08:02, *58:39N = *58:19, *58:21 = *58:19, *58:39N
++-----	-----	+-----	*58:08:02, *58:17N = *58:17N, *58:19
++-----	-----	+-----	*58:08:02, *58:22 = *58:16, *58:19 = *58:19, *58:22
++-----	-----	-----	*58:08:02, *58:13 = *58:13, *58:19
++-----	-----	-----	*58:08:02, *58:12 = *58:08:02, *58:36 = *58:12, *58:19 = *58:19, *58:36
++-----	-----	-----	*58:08:02, *58:11 = *58:11, *58:19 = *58:19, *58:20
++-----	-----	-----	*58:08:02, *58:10N = *58:10N, *58:19
++-----	+-----	-----	*58:08:02, *58:09 = *58:09, *58:19
++-----	+-----	-----	*58:01:01, *58:08:01 = *58:01:10, *58:08:01 = *58:08:01, *58:19 = *58:08:01, *58:23 = *58:08:02, *58:23 = *58:19, *58:23
++-----	-----	-----	*58:05, *58:08:02 = *58:05, *58:19
++-+-----	-----	+--+-----	*58:04, *58:18 = *58:15, *58:18
++-+-----	-----	-----	*58:04, *58:08:02 = *58:04, *58:19 = *58:08:02, *58:15 = *58:15, *58:19
+++-----	--+-----	-----	*58:02, *58:21 = *58:02, *58:39N
+++-----	--+-----	+-----	*58:01:01, *58:25 = *58:01:10, *58:25 = *58:02, *58:17N = *58:17N, *58:25
+++-----	--+-----	-----	*58:02, *58:12 = *58:02, *58:36
+++-----	--+-----	-----	*58:01:01, *58:07 = *58:01:10, *58:07
+++-----	-----	-----	*58:01:01, *58:06 = *58:01:10, *58:06 = *58:06, *58:19
+++-----	--+-----	-----	*58:02, *58:04 = *58:02, *58:15
+--+---+-	--+-----	+-----	*58:06, *58:25 = *58:08:02, *58:25
+--+---+-	--+-----	-----	*58:06, *58:07 = *58:07, *58:08:02
++-----	+-----	-----	*58:08:01, *58:21 = *58:08:01, *58:39N
++-----	+-----	-----	*58:08:01, *58:12 = *58:08:01, *58:36
++-+---+-	+-----	-----	*58:04, *58:08:01 = *58:08:01, *58:15
+++-----	--+-----	+--+-----	*58:21, *58:25 = *58:25, *58:39N
+++-----	--+-----	+-----	*58:12, *58:25 = *58:25, *58:36
+++-----	--+-----	-----	*58:07, *58:21 = *58:07, *58:39N
+++-----	--+-----	-----	*58:07, *58:12 = *58:07, *58:36
+++-----	-----	-----	*58:06, *58:21 = *58:06, *58:39N
+++-----	-----	-----	*58:06, *58:12 = *58:06, *58:36
+++-----	--+-----	+-----	*58:04, *58:25 = *58:15, *58:25
+++-----	--+-----	-----	*58:04, *58:07 = *58:07, *58:15
+++-----	-----	-----	*58:04, *58:06 = *58:06, *58:15

*58:01:01 = *58:01:01-58:01:09, 58:01:12 and 58:32-58:35 and 58:37
*58:01:10 = *58:01:10-58:01:11
*58:02 = *58:02 and 58:38
*58:09 = *58:09 and 58:24
*58:21 = *58:21 and 58:29



101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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Lot-specific information
SPECIFICITY TABLE

HLA-B*58 SSP subtyping

Specificities and sizes of the PCR products of the 24 primer mixes used for HLA-B*58 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*58 alleles ³	Other amplified HLA Class I alleles ⁴
1⁵	90 bp	800 bp	*58:01:01-58:02, 58:05-58:29, 58:31N-58:35, 58:37-58:38	
2	150 bp	800 bp	*58:01:01-58:01:12, 58:04-58:05, 58:09-58:15, 58:17N, 58:19, 58:21-58:24, 58:28-58:29, 58:31N-58:37, 58:39N	*08:49, 13:01:01-13:01:06, 13:06-13:07N, 13:12-13:13, 13:17, 13:20, 13:22:01-13:23, 13:25-13:26, 13:28-13:29, 13:36, 13:39, 13:43, 13:50-13:52, 13:57, 13:60-13:61, 13:63N, 14:10, 15:02:01-15:02:06, 15:13:01-15:13:02, 15:20-15:21, 15:25:01-15:25:03, 15:36, 15:44, 15:62, 15:77, 15:80, 15:85, 15:88-15:89, 15:106, 15:112, 15:121, 15:139, 15:144, 15:154, 15:165, 15:170, 15:194, 15:204, 15:213-15:214, 15:223, 15:240, 15:250, 18:22, 18:69, 27:19, 27:30, 35:01:01:01-35:04:03, 35:06-35:08:06, 35:10-35:17, 35:19-35:21, 35:23-35:30, 35:33-35:36, 35:38-35:42:02, 35:45-35:50, 35:52, 35:54-35:57, 35:59, 35:61:01-35:63, 35:65Q, 35:69-35:71, 35:74, 35:76-35:78, 35:80-35:85, 35:90-35:96, 35:98, 35:100-35:101:02, 35:103-35:113, 35:115-35:116, 35:120-35:126, 35:128-35:134N, 35:136-35:150, 35:152-35:173N, 35:175-35:184, 35:186-35:198, 35:200-35:204, 35:206-35:220, 37:01:01-37:01:07, 37:01:09, 37:03N-37:06, 37:08, 37:10-37:11, 37:13-37:37, 38:20, 39:42, 40:28, 44:02:01:01-44:14, 44:16-44:17, 44:19N, 44:21-44:30, 44:32-44:40, 44:42-44:46, 44:48-44:52N, 44:55-44:64:02, 44:66-44:98, 44:101-44:105, 44:107-44:134, 44:136-44:137, 44:139-44:157, 44:159-44:165, 46:33, 48:02:01-48:02:03, 48:25, 50:17, 51:04, 51:42, 51:46, 51:56:01-51:56:02, 51:139, 53:01:01-53:13, 53:15-53:29, 55:14, 56:09, 56:11-56:12, 57:01:01-57:01:04, 57:01:06-57:10, 57:12, 57:14-57:20, 57:22-57:30, 57:32-57:46,

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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Lot-specific information

		57:48-57:60, 83:01, C*03:102		
3	240 bp	800 bp	*58:02, 58:06-58:07, 58:25, 58:38	*14:19, 14:27, 57:11, C*01:35, C*03:17, C*03:71, C*14:20
4¹⁰	190 bp, 230 bp	1070 bp	*58:04, 58:15	
5⁵	90 bp	1070 bp	*58:05	*15:124, 40:77, 40:87:01-40:87:02, 40:222, 48:14, 48:26, 57:59, C*07:81, C*07:168
6	170 bp	1070 bp	*58:06, 58:08:01- 58:08:02, 58:19	*07:02:01-07:24, 07:26-07:47, 07:49N-07:50, 07:52-07:154, 07:156-07:163, 07:165-07:176, 08:20, 08:53:01-08:53:02, 08:79, 13:16, 13:20, 13:31, 13:48, 13:62, 14:01:01-14:33, 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, 15:251-15:264, 18:15, 18:19, 18:21, 18:30, 18:57, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:18, 27:20-27:21, 27:24-27:25, 27:40, 27:54, 27:63, 27:66N, 27:68-27:69, 27:79, 27:86, 27:91-27:92, 35:11:01-35:11:03, 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, 35:213, 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, 46:26-46:32, 46:34-46:36, 46:38, 48:05, 48:08, 48:15, 48:25, 49:01:01-49:10, 49:12-49:25, 50:01:01-50:02, 50:04-50:19, 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, 51:123-51:138, 51:140, 51:142-51:147, 52:01:01:01-52:02, 52:04-52:09, 52:11-52:18,

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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				52:20-52:27, 52:30-52:31, 53:06, 53:08:01-53:08:02, 53:28, 54:06, 54:20, 55:01:01-55:01:10, 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, 56:37, 57:09, 57:13, 57:22, 57:57, 78:01:01-78:03, 78:05-78:07
7^{5,9}	80 bp	800 bp	*58:06, 58:08:01-58:08:02, 58:19	*07:02:35 ^w , 07:68:02 ^w , 13:16, 13:20, 13:48, 13:62, 14:01:01-14:02:06, 14:03 ^w , 14:04-14:11, 14:12 ^w , 14:13-14:33, 15:03:02, 15:13:02, 15:39:02, 15:42, 18:15, 35:11:01, 35:11:03 ^w , 35:21, 35:58, 35:96, 35:167, 35:188, 38:10, 38:32, 39:35, 40:28, 40:95, 44:76 ^w , 44:79, 48:25, 49:01:01, 49:01:03-49:10, 49:12-49:21, 49:23-49:25, 50:01:01-50:01:02, 50:02, 50:04-50:19, 51:01:01-51:01:24, 51:01:26-51:01:36, 51:01:38-51:02:04, 51:03-51:04, 51:06:01-51:07:02, 51:11N-51:14, 51:16-51:18, 51:21-51:24:01, 51:24:04, 51:26-51:28, 51:29 ^w , 51:30, 51:32-51:35, 51:37-51:39, 51:41N, 51:43, 51:45-51:46, 51:48-51:53, 51:55 ^w , 51:56:01-51:60, 51:62-51:70, 51:74-51:80, 51:82 ^w , 51:83-51:86, 51:88-51:90, 51:92, 51:94-51:96, 51:98N-51:107, 51:109-51:114, 51:116-51:121, 51:123-51:125, 51:127-51:138, 51:140, 51:142-51:147, 52:01:01:01-52:01:06, 52:01:08-52:01:14, 52:01:16-52:02, 52:04-52:09, 52:11-52:18, 52:20, 52:22-52:23, 52:24 ^w , 52:25-52:31, 53:06, 53:08:01, 53:28, 54:20 ^w , 55:01:01-55:01:10, 55:03, 55:05, 55:09 ^w , 55:11, 55:14-55:15, 55:17, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:52 ^w , 55:53-55:55N, 56:05:01-56:06, 56:21, 56:25, 56:32, 56:37, 78:01:01-78:03, 78:05-78:07, C*03:119, C*07:165, C*07:241, C*07:265, C*15:02:13
8	250 bp	1070 bp	*58:07	
9⁸	160 bp	800 bp	*58:08:01, 58:23	A*02:01:33
10^{5,11}	115 bp, 270 bp	800 bp	*58:09, 58:24	*14:10, 18:22, 18:69, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 35:190, 37:04:01-37:04:02, 40:28, 51:04, 51:46, 51:56:01-51:56:02, 51:139, 53:02, 53:06, 53:28, 57:14, C*03:141, C*15:18, C*15:39

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11⁹	205 bp	1070 bp	*58:02, 58:07, 58:25, 58:38	*18:44:01-18:44:02, 57:11, A*24:64^W , C*01:06^W , C*16:43^W
12	235 bp	1070 bp	*58:10N	
13	165 bp	1070 bp	*58:01:01- 58:01:09, 58:01:12- 58:02, 58:04- 58:10N, 58:12-58:19, 58:21-58:29, 58:31N- 58:39N	*15:20, 15:228, 35:01:01:01-35:01:27, 35:01:29- 35:30, 35:32:01-35:42:02, 35:44-35:56, 35:58- 35:59, 35:61:01-35:72, 35:74-35:78, 35:80- 35:86, 35:88-35:184, 35:186-35:220, 48:02:01- 48:02:03, 51:01:01-51:24:04, 51:26-51:41N, 51:43-51:46, 51:48-51:148, 52:01:01:01- 52:06:02, 52:08-52:31, 53:01:01-53:29, 56:05:01-56:05:02, 56:21, 56:36, 78:01:01-78:07, 81:03, 83:01 [?]
14^{7,8}	165 bp	1070 bp	*58:11, 58:20	*07:02:01-07:57, 07:59-07:176, 08:01:01-08:05, 08:07-08:105, 13:01:01-13:04, 13:06-13:23, 13:25-13:60, 13:62-13:63N, 14:01:01-14:33, 15:01:01:01-15:01:04, 15:01:06-15:19, 15:21, 15:23-15:40, 15:42-15:58, 15:60-15:99, 15:101, 15:103-15:129, 15:131-15:227, 15:229-15:264, 18:01:01:01-18:15, 18:17N-18:83, 27:01-27:21, 27:23-27:99, 35:31, 35:35, 35:43:01, 35:46, 35:57, 35:60, 35:79, 35:87, 35:96, 35:98, 35:185, 37:01:01-37:37, 38:01:01-38:42, 39:01:01:01- 39:01:01:03, 39:01:03-39:20, 39:22-39:45, 39:47-39:79, 40:01:01-40:16, 40:18-40:40, 40:42-40:226, 41:01-41:25, 42:01:01-42:02, 42:04-42:17, 44:02:01:01-44:65, 44:67-44:117, 44:119-44:165, 45:01-45:14, 46:01:01-46:36, 46:38, 47:01:01:01-47:08, 48:01:01-48:01:03, 48:02:02-48:28, 49:01:01-49:25, 50:01:01-50:02, 50:04-50:19, 51:42, 52:07, 54:01:01-54:28, 55:01:01-55:05, 55:07-55:57, 56:01:01-56:04, 56:06-56:20:02, 56:22-56:38N, 57:01:01- 57:01:10, 57:01:12-57:60, 59:01:01:01-59:05, 67:01:01-67:03, 81:01-81:02, 81:04N-81:06, 82:01-82:03, 83:01 [?]
15^{5,12}	90 bp, 155 bp	1070 bp	*58:12, 58:36	*57:01:01-57:15, 57:17-57:19, 57:21-57:35, 57:37-57:44, 57:46-57:50, 57:52-57:60, A*02:42 , A*02:310
16	145 bp	1070 bp	*58:13	*49:06

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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17 ^{5,7,8,13}	55 bp, 225 bp, 375 bp	1070 bp	*58:16, 58:18, 58:22	*07:12, 07:14, 07:18:01-07:18:02, 07:137, 07:162-07:163, 35:08:01-35:08:06, 35:18, 35:45, 35:61:01-35:61:02, 35:80, 35:100, 35:105, 35:142, 35:156, 35:158, 35:164, 35:172, 35:174, 35:176, 35:187, 35:192, 35:206, 44:04, 44:28:01-44:28:02, 44:56N, 44:76, 44:150, 53:11, 53:16, 53:24, 57:02:01-57:02:02, 57:04- 57:05, 57:12-57:13, 57:19, 57:28N, 57:30, 57:42, C*01:49-01:50, C*03:28, C*03:49, C*03:117, C*04:80, C*04:100, C*04:110, C*05:10, C*15:08
18 ^{5,14}	70 bp, 140 bp	1070 bp	*58:17N, 58:25	
19 ⁵	95 bp	800 bp	*58:18	*07:09, 07:11, 07:17, 08:28, 08:35, 08:37, 15:07:01-15:07:02, 15:55, 15:68, 15:126, 15:207, 18:14, 35:05:01-35:05:03, 35:51, 35:58, 35:66, 35:72, 35:89, 35:97, 35:114, 40:03, 40:105, 41:24, 42:09, 46:12, 48:14, 53:14, C*02:60
20 ^{5,15}	85 bp, 145 bp, 180 bp, 275 bp	1070 bp	*58:21, 58:29, 58:39N	*18:51
21	440 bp	1070 bp	*58:14	*35:208
22	180 bp	1070 bp		*35:70
23 ¹⁶	150 bp, 260 bp	1070 bp	*58:26, 58:31N	*35:75, 44:138Q
24 ^{5,8}	95 bp	1070 bp	*58:27-58:28	*07:05:01-07:06, 07:32, 07:34, 07:40, 07:53, 07:69, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:137-07:138, 07:140, 07:176, 08:01:01-08:05, 08:08N, 08:10-08:11, 08:13, 08:15, 08:17-08:27, 08:29, 08:31-08:34, 08:36, 08:38-08:48, 08:50-08:68, 08:70-08:83, 08:85- 08:86N, 08:88, 08:90-08:105, 13:13, 13:21, 14:13, 27:07:01-27:07:03, 27:11, 27:24, 27:33, 27:43, 35:02:01-35:02:05, 35:04:01-35:04:03, 35:09:01-35:09:03, 35:12:01-35:12:03, 35:18, 35:22, 35:31, 35:81, 35:83, 35:87-35:88, 35:95, 35:129N, 35:149, 35:154, 35:157, 35:162, 35:172, 35:182-35:184, 35:201, 35:211, 35:220, 37:12, 39:14, 40:02:01-40:02:15, 40:02:17, 40:04-40:05, 40:08, 40:13, 40:15-40:16, 40:19, 40:28-40:30, 40:34-40:35, 40:37, 40:39-40:40, 40:45, 40:50, 40:56-40:58, 40:64, 40:68, 40:78, 40:80, 40:82, 40:85, 40:89-40:91, 40:94, 40:97, 40:99, 40:104, 40:107, 40:111, 40:115, 40:119, 40:122, 40:129, 40:133Q, 40:137, 40:142N- 40:145, 40:157, 40:160:01-40:160:02, 40:164,

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Lot-specific information

40:169, 40:173-40:174, 40:176, 40:181, 40:189,
 40:200-40:203, 40:205-40:206, 40:209, 40:211,
 40:214, 40:219-40:220, 40:224, 40:226,
 41:02:01-41:02:04, 41:10-41:11, 41:13, 41:15,
 41:19, 41:23, 42:01:01-42:02, 42:05:01-42:05:02,
 42:07-42:08, 42:10-42:15, 42:17, 44:62, 44:77,
 44:82, 48:01:01-48:01:03, 48:04-48:06, 48:09-
 48:13, 48:15-48:16, 48:18-48:20, 48:22, 48:24,
 48:27-48:28, 51:04, 51:46, 51:56:01-51:56:02,
 51:64, 51:81, 51:139, 51:148, 53:19, 55:04,
 55:49, 55:51, 56:12, 57:02:01-57:03:02, 57:05,
 57:07, 57:09, 57:12, 57:17, 57:39, 57:42, 57:46,
 57:57, 81:01-81:06, **C*15:24**

¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B*58 SSP typings.

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

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

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

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

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

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

Well number 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*58 subtyping.

In addition, wells number 2, 3, 7, 9, 10 and 19 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.

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

⁴Due to the sharing of sequence motifs between HLA-B alleles some non-HLA-B*58 alleles will be amplified by primer mixes 2, 3, 5 to 7, 10, 11, 13 to 17, 19 to 24. In addition, the A*02:01:33 allele will be amplified by primer mix 9, the A*02:42 and A*02:310 allele will be amplified by primer mix 15, the A*24:64, C*01:06 and C*16:43 alleles will be weakly amplified by primer mix 11, the C*01:35, C*03:17, C*03:71 and C*14:20 alleles will be amplified by primer mix 3, the C*01:49-01:50, C*03:28, 03:49, 03:117, C*04:80, 04:100, 04:110, C*05:10, C*15:08 alleles will be amplified by primer mix 17, the C*03:102 allele will be amplified by primer mix 2, the C*03:119, C*07:165, 07:241, C*07:265 and C*15:02:13 alleles will be amplified by primer mix 7, the C*07:81 and C*07:168 alleles will be amplified by primer mix 5, the C*03:141, C*15:18 and C*15:39 alleles will be amplified by primer mix 10 and the C*15:24 allele will be amplified by primer mix 24.

101.568-06 – including *Taq* polymerase, IFU-01
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Lot No.: 80R**Lot-specific information**

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

⁷Primer mixes 14 and 17 may have tendencies of unspecific amplifications.

⁸Primer mixes 9, 14, 17 and 24 have a tendency to giving rise to primer oligomer formation.

⁹Primer mix 7 and 11 may give a lower yield of HLA-specific PCR product than the other HLA-B*58 primer mixes.

¹⁰Primer mix 4: Specific PCR fragment of 190 bp in the B*58:04 allele. Specific PCR fragment of 230 bp in the B*58:15 allele.

¹¹Primer mix 10: Specific PCR fragment of 115 bp in the B*58:24 and the C*03:141 and C*15:18 alleles. Specific PCR fragment of 270 bp in the B*58:09 and the B*14:10, 18:22, 18:69, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 35:190, 37:04:01-37:04:02, 40:28, 51:04, 51:46, 51:56:01-51:56:02, 53:02, 53:06, 53:28 and 57:14 and in the C*15:39 alleles.

¹²Primer mix 15: Specific PCR fragment of 90 bp in the B*58:36 and the B*57:01:01-57:15, 57:17-57:19, 57:21-57:35, 57:37-57:44, 57:46-57:50 and 57:52-57:60 alleles. Specific PCR fragment of 155 bp in the B*58:12 and the B*57:58 and the A*02:42 and 02:310 alleles

¹³Primer mix 17: Specific PCR fragment of 55 and 225 bp in the B*35:08:03 and the C*01:49 alleles.

Specific PCR fragment of 225 bp in the B*58:22 and 07:12, 07:14, 07:18:01-07:18:02, 07:137, 07:162-07:163, 35:08:01-35:08:06, 35:18, 35:45, 35:61:01-35:61:02, 35:80, 35:100, 35:105, 35:142, 35:156, 35:158, 35:164, 35:172, 35:174, 35:176, 35:187, 35:192, 35:206, 44:04, 44:28:01-44:28:02, 44:56N, 44:76, 44:150, 53:11, 53:16, 53:24, 57:02:01-57:02:02, 57:04-57:05, 57:12-57:13, 57:19, 57:28N, 57:30 and 57:42 and in the C*01:49-01:50, C*03:28, 03:49, 03:117, C*04:80, 04:100, 04:110, C*05:10 and C*15:08 alleles

Specific PCR fragment of 375 bp in the B*58:16 and 58:18 alleles.

¹⁴Primer mix 18: Specific PCR fragment of 70 bp in the B*58:25 allele. Specific PCR fragment of 140 bp in the B*58:17N allele.

¹⁵Primer mix 20: Specific PCR fragment of 85 bp and 180bp in the B*58:29 allele. Specific PCR fragment of 145 bp in the the B*58:39N allele. Specific PCR fragment of 180 bp in the the B*18:51 allele. Specific PCR fragment of 180 bp and 275 bp in the B*58:21 allele.

¹⁶Primer mix 23: Specific PCR fragment of 150 bp in the B*58:26 and the B*35:75 and 44:138Q alleles. Specific PCR fragment of 260 bp in the B*58:31N allele.

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

‘w’ , might be weakly amplified.

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 80R

Lot-specific information

INTERPRETATION TABLE												
HLA-B*58 SSP subtyping												
Amplification patterns of the B*58:01 to B*58:39N alleles												
	Well ⁹											
	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product(s)	90	150	240	190	90	170	80	250	160	115	205	235
				230						270		
Length of int. pos. control ¹	800	800	800	1070	1070	1070	800	1070	800	800	1070	1070
5'-primer(s) ²	5'-ggA ^{3'}	5'-TCA ^{3'}	5'-AgT ^{3'}	5'-CCA ^{3'}	5'-TgA ^{3'}	5'-TgA ^{3'}	5'-ACC ^{3'}	5'-AgT ^{3'}	5'-ATT ^{3'}	5'-TCA ^{3'}	5'-AgT ^{3'}	5'-T.T ^{3'}
									5'-TCA ^{3'}			
3'-primer(s) ³	5'-CCC ^{3'}	5'-gCT ^{3'}	5'-CAG ^{3'}	5'-CTC ^{3'}	5'-CCA ^{3'}	5'-TAT ^{3'}	5'-CCT ^{3'}	5'-gCg ^{3'}	5'-CCC ^{3'}	5'-gCg ^{3'}	5'-CCA ^{3'}	5'-CAG ^{3'}
			5'-CTg ^{3'}						5'-CCA ^{3'}	5'-gTg ^{3'}		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
HLA-B allele ^{4,5}												
*58:01:01-58:01:09, 58:01:12, 58:32-58:35, 58:37	1	2										
*58:01:10-58:01:11	1	2										
*58:02, 58:38	1		3								11	
*58:04		2		4								
*58:05	1	2			5							
*58:06	1		3			6	7					
*58:07	1		3					8			11	
*58:08:01	1					6	7		9			
*58:08:02	1					6	7					
*58:09, 58:24 ⁶	1	2								10		
*58:10N	1	2										12
*58:11	1	2										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **80R**

Lot-specific information

INTERPRETATION TABLE											
HLA-B*58 SSP subtyping											
Amplification patterns of the B*58:01 to B*58:39N alleles											
Well ⁹											
13	14	15	16	17	18	19	20	21	22	23	24
165	165	90	145	55	70	95	85	440	180	150	95
		155		225	140		145			260	
				375			180				
							275				
1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070
652	652	142	454	281	209	363	106	206	635	355	355
5'-CCg ^{3'}	5'-CCA ^{3'}	5'-TCT ^{3'}	5'-ACA ^{3'}	5'-CTC ^{3'}	5'-ggA ^{3'}	5'-AgC ^{3'}	5'-CCA ^{3'}	5'-gAC ^{3'}	5'-ACg ^{3'}	5'-TCC ^{3'}	5'-TCA ^{3'}
		209		355			209			652	363
		5'-ggC ^{3'}		5'-TCA ^{3'}			5'-ggA ^{3'}			5'-CCg ^{3'}	5'-AgC ^{3'}
774	774	256	559	369	239	419	208	362	774	463	412
5'-ggT ^{3'}	5'-ggT ^{3'}	5'-CCC ^{3'}	5'-Cag ^{3'}	5'-CCg ^{3'}	5'-gCg ^{3'}	5'-Cgg ^{3'}	5'-CTA ^{3'}	5'-TCA ^{3'}	5'-ggT ^{3'}	5'-gCT ^{3'}	5'-gTT ^{3'}
				538	309		252			870	
				5'-CCg ^{3'}	5'-A.C ^{3'}		5'-TCg ^{3'}			5'-gA ^{3'}	
							340				
							5'-ggT ^{3'}				
13	14	15	16	17	18	19	20	21	22	23	24
13											
13											
13											
13											
13											
13	14										
13	14	15	16	17	18	19	20	21	22	23	24

Length of spec.
PCR product(s)

Length of int.
pos. control¹

5'-primer(s)²

3'-primer(s)³

Well No.

HLA-B allele^{4,5}

*58:01:01-58:01:09, 58:01:12, 58:32-58:35, 58:37

*58:01:10-58:01:11

*58:02, 58:38

*58:04

*58:05

*58:06

*58:07

*58:08:01

*58:08:02

*58:09, 58:24⁶

*58:10N

*58:11

Well No.

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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Lot No.: **80R**

Lot-specific information

Length of spec. PCR product(s)	90	150	240	190	90	170	80	250	160	115	205	235
				230						270		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*58:12	1	2										
*58:13	1	2										
*58:14	1	2										
*58:15	1	2		4								
*58:16	1											
*58:17N	1	2										
*58:18	1											
*58:19	1	2				6	7					
*58:20	1											
*58:21, 58:29 ⁷	1	2										
*58:22	1	2										
*58:23	1	2							9			
*58:25	1		3								11	
*58:26	1											
*58:27	1											
*58:28	1	2										
*58:31N	1	2										
*58:36		2										
*58:39N		2										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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Lot No.: **80R**

Lot-specific information

165	165	90	145	55	70	95	85	440	180	150	95	Length of spec. PCR product(s)
		155		225	140		145			260		
				375			180					
							275					
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
13		15										*58:12
13			16									*58:13
13								21				*58:14
13												*58:15
13				17								*58:16
13					18							*58:17N
13				17		19						*58:18
13												*58:19
	14											*58:20
13							20					*58:21, 58:29 ⁷
13				17								*58:22
13												*58:23
13					18							*58:25
13									23			*58:26
13										24		*58:27
13										24		*58:28
13									23			*58:31N
13		15										*58:36
13							20					*58:39N
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **80R**

Lot-specific information

Length of spec. PCR product(s)	90	150	240	190	90	170	80	250	160	115	205	235
				230						270		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*07:02:01-07:02:34, 07:02:36-07:04, 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, 07:54-07:57, 07:59-07:68:01, 07:68:03, 07:70-07:79, 07:81-07:89, 07:91-07:96:02, 07:98-07:104, 07:106-07:111N, 07:113-07:122, 07:124-07:136, 07:139, 07:141-07:154, 07:156-07:161N, 07:165-07:175, 13:31, 14:02:07, 15:01:01:01-15:01:04, 15:01:06-15:01:31, 15:03:01, 15:03:03-15:04, 15:06, 15:08-15:12, 15:14-15:19, 15:23-15:24, 15:26N-15:30, 15:32-15:35, 15:37-15:39:01, 15:40, 15:43, 15:45-15:47:02, 15:49-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:61, 15:63-15:67, 15:69-15:74, 15:76, 15:78:01-15:79N, 15:81-15:82, 15:87, 15:90, 15:92-15:99, 15:101, 15:103-15:104, 15:108-15:110, 15:113, 15:115-15:120, 15:122, 15:125, 15:127-15:129, 15:131-15:135, 15:137-15:138, 15:140-15:143, 15:146-15:150, 15:152-15:153, 15:156-15:161, 15:163-15:164, 15:166-15:169, 15:171-15:175, 15:177-15:178, 15:180-15:184, 15:187, 15:189-15:193, 15:195-15:199, 15:201-15:203, 15:205-15:206, 15:208-15:212, 15:215-15:217, 15:219-15:221, 15:225-15:227, 15:229-15:234, 15:236, 15:238-15:239, 15:241-15:249, 15:251-15:264, 18:19, 18:21, 18:30, 18:57, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:18, 27:20-27:21, 27:25, 27:40, 27:54, 27:63, 27:66N, 27:68-27:69, 27:79, 27:86, 27:91-27:92, 35:43:01, 35:79, 35:185, 37:07, 39:18, 39:36, 40:23, 40:26, 40:32, 40:51, 40:98, 40:148, 40:158, 40:161, 40:183, 40:198, 46:01:01-46:05, 46:07N-46:08, 46:10, 46:14-46:17, 46:20, 46:22-46:24, 46:26-46:32, 46:34-46:36, 46:38, 48:08, 49:01:02, 49:22, 50:01:03, 54:06, 55:21, 55:56, 56:03						6						
*07:02:35, 07:68:02, 14:03, 14:12, 54:20, 55:09, 55:52						6	w					
*07:05:01-07:06, 07:32, 07:34, 07:40, 07:53, 07:69, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:138, 07:140, 07:176, 08:20, 08:53:01-08:53:02, 08:79, 27:24, 40:05, 40:15-40:16, 40:174, 48:05, 48:15						6						
*07:09, 07:11, 07:17, 15:07:01-15:07:02, 15:68, 15:126, 15:207, 46:12						6						
*07:12, 07:14, 07:18:01-07:18:02, 07:162-07:163						6						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **80R**

Lot-specific information

165	165	90	145	55	70	95	85	440	180	150	95	Length of spec. PCR product(s)
		155		225	140		145			260		
				375			180					
							275					
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
	14											*07:02:01-07:02:34, 07:02:36-07:04, 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, 07:54-07:57, 07:59-07:68:01, 07:68:03, 07:70-07:79, 07:81-07:89, 07:91-07:96:02, 07:98-07:104, 07:106-07:111N, 07:113-07:122, 07:124-07:136, 07:139, 07:141-07:154, 07:156-07:161N, 07:165-07:175, 13:31, 14:02:07, 15:01:01:01-15:01:04, 15:01:06-15:01:31, 15:03:01, 15:03:03-15:04, 15:06, 15:08-15:12, 15:14-15:19, 15:23-15:24, 15:26N-15:30, 15:32-15:35, 15:37-15:39:01, 15:40, 15:43, 15:45-15:47:02, 15:49-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:61, 15:63-15:67, 15:69-15:74, 15:76, 15:78:01-15:79N, 15:81-15:82, 15:87, 15:90, 15:92-15:99, 15:101, 15:103-15:104, 15:108-15:110, 15:113, 15:115-15:120, 15:122, 15:125, 15:127-15:129, 15:131-15:135, 15:137-15:138, 15:140-15:143, 15:146-15:150, 15:152-15:153, 15:156-15:161, 15:163-15:164, 15:166-15:169, 15:171-15:175, 15:177-15:178, 15:180-15:184, 15:187, 15:189-15:193, 15:195-15:199, 15:201-15:203, 15:205-15:206, 15:208-15:212, 15:215-15:217, 15:219-15:221, 15:225-15:227, 15:229-15:234, 15:236, 15:238-15:239, 15:241-15:249, 15:251-15:264, 18:19, 18:21, 18:30, 18:57, 27:04:01-27:04:03, 27:06, 27:10, 27:15, 27:18, 27:20-27:21, 27:25, 27:40, 27:54, 27:63, 27:66N, 27:68-27:69, 27:79, 27:86, 27:91-27:92, 35:43:01, 35:79, 35:185, 37:07, 39:18, 39:36, 40:23, 40:26, 40:32, 40:51, 40:98, 40:148, 40:158, 40:161, 40:183, 40:198, 46:01:01-46:05, 46:07N-46:08, 46:10, 46:14-46:17, 46:20, 46:22-46:24, 46:26-46:32, 46:34-46:36, 46:38, 48:08, 49:01:02, 49:22, 50:01:03, 54:06, 55:21, 55:56, 56:03
	14											*07:02:35, 07:68:02, 14:03, 14:12, 54:20, 55:09, 55:52
	14										24	*07:05:01-07:06, 07:32, 07:34, 07:40, 07:53, 07:69, 07:80, 07:90, 07:97, 07:105, 07:112, 07:123, 07:138, 07:140, 07:176, 08:20, 08:53:01-08:53:02, 08:79, 27:24, 40:05, 40:15-40:16, 40:174, 48:05, 48:15
	14					19						*07:09, 07:11, 07:17, 15:07:01-15:07:02, 15:68, 15:126, 15:207, 46:12
	14			17								*07:12, 07:14, 07:18:01-07:18:02, 07:162-07:163
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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Lot No.: **80R**

Lot-specific information

Length of spec. PCR product(s)	90	150	240	190	90	170	80	250	160	115	205	235
				230						270		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*07:25, 07:48, 07:51, 07:155, 07:164, 08:07, 08:09, 08:12:01-08:12:03, 08:14, 08:16, 08:30N, 08:69, 08:84, 08:87, 08:89, 13:02:01-13:04, 13:08Q-13:11, 13:14-13:15, 13:18-13:19, 13:27, 13:30, 13:32-13:35, 13:37-13:38, 13:40-13:42, 13:44-13:47, 13:49N, 13:53-13:56N, 13:58-13:59, 15:05:01-15:05:02, 15:31, 15:48, 15:51-15:52, 15:75, 15:83-15:84, 15:86, 15:91, 15:105, 15:107, 15:111N, 15:114, 15:123, 15:136, 15:145, 15:151, 15:155, 15:162, 15:176, 15:179, 15:185-15:186, 15:188, 15:200, 15:218Q, 15:222, 15:224, 15:235, 15:237, 18:01:01:01-18:13, 18:17N-18:18, 18:20, 18:23N-18:29, 18:31-18:43, 18:45-18:50, 18:52-18:56, 18:58-18:68, 18:70-18:83, 27:01-27:03, 27:05:02-27:05:20, 27:08-27:09, 27:12-27:14, 27:16-27:17, 27:23, 27:26-27:29, 27:31-27:32, 27:34-27:39, 27:41-27:42, 27:44-27:53, 27:55-27:62, 27:64N-27:65N, 27:67, 27:70-27:78, 27:80-27:85, 27:87-27:90:02, 27:93-27:99, 35:60, 37:01:08, 37:02, 37:09, 38:01:01-38:09, 38:11-38:19, 38:21-38:31, 38:33-38:42, 39:01:01:01-39:01:01:03, 39:01:03-39:13:02, 39:15-39:17, 39:19:01-39:20, 39:22-39:34, 39:37-39:41, 39:43-39:45, 39:47-39:79, 40:01:01-40:01:29, 40:02:16, 40:06:01:01-40:07, 40:09-40:12, 40:14:01-40:14:03, 40:18, 40:20-40:22N, 40:24-40:25, 40:27:01-40:27:02, 40:31, 40:33, 40:36, 40:38, 40:42-40:44, 40:46-40:49, 40:52-40:55, 40:59-40:63, 40:65-40:67, 40:69-40:76, 40:79, 40:81, 40:83-40:84, 40:86, 40:88, 40:92-40:93, 40:96, 40:100-40:103, 40:106, 40:108-40:110, 40:112-40:114, 40:138-40:141, 40:146-40:147, 40:149-40:156, 40:159, 40:162-40:163, 40:165-40:168, 40:170-40:172, 40:175, 40:177-40:180, 40:182, 40:184-40:188, 40:190-40:197, 40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221, 40:223, 40:225, 41:01, 41:03:01-41:09, 41:12, 41:14, 41:16-41:18, 41:20-41:22, 41:25, 42:04, 42:06, 42:16, 44:15, 44:18, 44:20, 44:31, 44:41:01-44:41:02, 44:47, 44:53-44:54, 44:65, 44:99-44:100, 44:106, 44:135, 44:158, 45:01-45:14, 46:06, 46:09, 46:11, 46:13:01-46:13:03, 46:18-46:19, 46:21:01-46:21:02, 46:25, 47:01:01:01-47:08, 48:03:01-48:03:02, 48:07, 48:17, 48:21, 48:23, 49:11, 54:01:01-54:05N, 54:07-54:19, 54:21-54:28, 55:02:01-55:02:06, 55:07-55:08, 55:10, 55:12-55:13, 55:16, 55:18-55:20, 55:22-55:23, 55:26-55:27, 55:30, 55:32, 55:34-55:35, 55:37, 55:39, 55:41-55:43, 55:46-55:48, 55:50, 55:57, 56:01:01-56:02, 56:04, 56:07-56:08, 56:10, 56:13-56:20:02, 56:22-56:24, 56:26-56:31, 56:33-56:35, 56:38N, 59:01:01:01-59:05, 67:01:01-67:03, 82:01-82:03												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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Lot No.: **80R**

Lot-specific information

13	14	15	16	17	18	19	20	21	22	23	24	Well No.
165	165	90	145	55	70	95	85	440	180	150	95	Length of spec.
		155		225	140		145			260		PCR product(s)
				375			180					
							275					
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
	14											*07:25, 07:48, 07:51, 07:155, 07:164, 08:07, 08:09, 08:12:01-08:12:03, 08:14, 08:16, 08:30N, 08:69, 08:84, 08:87, 08:89, 13:02:01-13:04, 13:08Q-13:11, 13:14-13:15, 13:18-13:19, 13:27, 13:30, 13:32-13:35, 13:37-13:38, 13:40-13:42, 13:44-13:47, 13:49N, 13:53-13:56N, 13:58-13:59, 15:05:01-15:05:02, 15:31, 15:48, 15:51-15:52, 15:75, 15:83-15:84, 15:86, 15:91, 15:105, 15:107, 15:111N, 15:114, 15:123, 15:136, 15:145, 15:151, 15:155, 15:162, 15:176, 15:179, 15:185-15:186, 15:188, 15:200, 15:218Q, 15:222, 15:224, 15:235, 15:237, 18:01:01:01-18:13, 18:17N-18:18, 18:20, 18:23N-18:29, 18:31-18:43, 18:45-18:50, 18:52-18:56, 18:58-18:68, 18:70-18:83, 27:01-27:03, 27:05:02-27:05:20, 27:08-27:09, 27:12-27:14, 27:16-27:17, 27:23, 27:26-27:29, 27:31-27:32, 27:34-27:39, 27:41-27:42, 27:44-27:53, 27:55-27:62, 27:64N-27:65N, 27:67, 27:70-27:78, 27:80-27:85, 27:87-27:90:02, 27:93-27:99, 35:60, 37:01:08, 37:02, 37:09, 38:01:01-38:09, 38:11-38:19, 38:21-38:31, 38:33-38:42, 39:01:01:01-39:01:01:03, 39:01:03-39:13:02, 39:15-39:17, 39:19:01-39:20, 39:22-39:34, 39:37-39:41, 39:43-39:45, 39:47-39:79, 40:01:01-40:01:29, 40:02:16, 40:06:01:01-40:07, 40:09-40:12, 40:14:01-40:14:03, 40:18, 40:20-40:22N, 40:24-40:25, 40:27:01-40:27:02, 40:31, 40:33, 40:36, 40:38, 40:42-40:44, 40:46-40:49, 40:52-40:55, 40:59-40:63, 40:65-40:67, 40:69-40:76, 40:79, 40:81, 40:83-40:84, 40:86, 40:88, 40:92-40:93, 40:96, 40:100-40:103, 40:106, 40:108-40:110, 40:112-40:114, 40:138-40:141, 40:146-40:147, 40:149-40:156, 40:159, 40:162-40:163, 40:165-40:168, 40:170-40:172, 40:175, 40:177-40:180, 40:182, 40:184-40:188, 40:190-40:197, 40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215-40:218, 40:221, 40:223, 40:225, 41:01, 41:03:01-41:09, 41:12, 41:14, 41:16-41:18, 41:20-41:22, 41:25, 42:04, 42:06, 42:16, 44:15, 44:18, 44:20, 44:31, 44:41:01-44:41:02, 44:47, 44:53-44:54, 44:65, 44:99-44:100, 44:106, 44:135, 44:158, 45:01-45:14, 46:06, 46:09, 46:11, 46:13:01-46:13:03, 46:18-46:19, 46:21:01-46:21:02, 46:25, 47:01:01:01-47:08, 48:03:01-48:03:02, 48:07, 48:17, 48:21, 48:23, 49:11, 54:01:01-54:05N, 54:07-54:19, 54:21-54:28, 55:02:01-55:02:06, 55:07-55:08, 55:10, 55:12-55:13, 55:16, 55:18-55:20, 55:22-55:23, 55:26-55:27, 55:30, 55:32, 55:34-55:35, 55:37, 55:39, 55:41-55:43, 55:46-55:48, 55:50, 55:57, 56:01:01-56:02, 56:04, 56:07-56:08, 56:10, 56:13-56:20:02, 56:22-56:24, 56:26-56:31, 56:33-56:35, 56:38N, 59:01:01:01-59:05, 67:01:01-67:03, 82:01-82:03
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **80R**

Lot-specific information

Length of spec. PCR product(s)	90	150	240	190	90	170	80	250	160	115	205	235
				230						270		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*07:58, 15:102						6						
*07:137						6						
*08:01:01-08:05, 08:08N, 08:10-08:11, 08:13, 08:15, 08:17-08:19N, 08:21-08:27, 08:29, 08:31-08:34, 08:36, 08:38-08:48, 08:50-08:52, 08:54-08:68, 08:70-08:78, 08:80-08:83, 08:85-08:86N, 08:88, 08:90-08:105, 13:21, 27:07:01-27:07:03, 27:11, 27:33, 27:43, 35:31, 35:87, 37:12, 39:14, 40:02:01-40:02:15, 40:02:17, 40:04, 40:08, 40:13, 40:19, 40:29-40:30, 40:34-40:35, 40:37, 40:39-40:40, 40:45, 40:50, 40:56-40:58, 40:64, 40:68, 40:78, 40:80, 40:82, 40:85, 40:89-40:91, 40:94, 40:97, 40:99, 40:104, 40:107, 40:111, 40:115, 40:119, 40:122, 40:129, 40:133Q, 40:137, 40:142N-40:145, 40:157, 40:160:01-40:160:02, 40:164, 40:169, 40:173, 40:176, 40:181, 40:189, 40:200-40:203, 40:205-40:206, 40:209, 40:211, 40:214, 40:219-40:220, 40:224, 40:226, 41:02:01-41:02:04, 41:10-41:11, 41:13, 41:15, 41:19, 41:23, 42:01:01-42:02, 42:05:01-42:05:02, 42:07-42:08, 42:10-42:15, 42:17, 48:01:01-48:01:03, 48:04, 48:06, 48:09-48:13, 48:16, 48:18-48:20, 48:22, 48:24, 48:27- 48:28, 55:04, 55:49, 55:51, 81:01-81:02, 81:04N-81:06												
*08:28, 08:35, 08:37, 15:55, 18:14, 40:03, 40:105, 41:24, 42:09												
*08:49, 13:01:01-13:01:06, 13:06-13:07N, 13:12, 13:17, 13:22:01-13:23, 13:25-13:26, 13:28-13:29, 13:36, 13:39, 13:43, 13:50-13:52, 13:57, 13:60, 13:63N, 15:88, 15:250, 27:19, 27:30, 35:57, 37:01:01-37:01:07, 37:01:09, 37:03N, 37:05-37:06, 37:08, 37:10-37:11, 37:14-37:37, 38:20, 39:42, 44:02:01:01-44:03:19, 44:05:01-44:14, 44:16-44:17, 44:19N, 44:21-44:27:02, 44:29-44:30, 44:32-44:40, 44:42-44:46, 44:48-44:52N, 44:55, 44:57-44:61N, 44:63-44:64:02, 44:67-44:75, 44:78, 44:80-44:81, 44:83-44:98, 44:101-44:105, 44:107-44:117, 44:119-44:134, 44:136-44:137, 44:139- 44:145, 44:147-44:149N, 44:151-44:157, 44:159- 44:165, 46:33, 51:42, 56:09, 56:11, 57:16, 57:20, 57:36, 57:45, 57:51		2										
*13:13, 44:62, 44:77, 44:82, 56:12		2										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **80R**

Lot-specific information

165	165	90	145	55	70	95	85	440	180	150	95	Length of spec. PCR product(s)
		155		225	140		145			260		
				375			180					
							275					
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												*07:58, 15:102
	14			17							24	*07:137
	14										24	*08:01:01-08:05, 08:08N, 08:10-08:11, 08:13, 08:15, 08:17-08:19N, 08:21-08:27, 08:29, 08:31-08:34, 08:36, 08:38-08:48, 08:50-08:52, 08:54-08:68, 08:70-08:78, 08:80-08:83, 08:85-08:86N, 08:88, 08:90-08:105, 13:21, 27:07:01-27:07:03, 27:11, 27:33, 27:43, 35:31, 35:87, 37:12, 39:14, 40:02:01-40:02:15, 40:02:17, 40:04, 40:08, 40:13, 40:19, 40:29-40:30, 40:34-40:35, 40:37, 40:39-40:40, 40:45, 40:50, 40:56-40:58, 40:64, 40:68, 40:78, 40:80, 40:82, 40:85, 40:89-40:91, 40:94, 40:97, 40:99, 40:104, 40:107, 40:111, 40:115, 40:119, 40:122, 40:129, 40:133Q, 40:137, 40:142N-40:145, 40:157, 40:160:01-40:160:02, 40:164, 40:169, 40:173, 40:176, 40:181, 40:189, 40:200-40:203, 40:205-40:206, 40:209, 40:211, 40:214, 40:219-40:220, 40:224, 40:226, 41:02:01-41:02:04, 41:10-41:11, 41:13, 41:15, 41:19, 41:23, 42:01:01-42:02, 42:05:01-42:05:02, 42:07-42:08, 42:10-42:15, 42:17, 48:01:01-48:01:03, 48:04, 48:06, 48:09-48:13, 48:16, 48:18-48:20, 48:22, 48:24, 48:27-48:28, 55:04, 55:49, 55:51, 81:01-81:02, 81:04N-81:06
	14					19						*08:28, 08:35, 08:37, 15:55, 18:14, 40:03, 40:105, 41:24, 42:09
	14											*08:49, 13:01:01-13:01:06, 13:06-13:07N, 13:12, 13:17, 13:22:01-13:23, 13:25-13:26, 13:28-13:29, 13:36, 13:39, 13:43, 13:50-13:52, 13:57, 13:60, 13:63N, 15:88, 15:250, 27:19, 27:30, 35:57, 37:01:01-37:01:07, 37:01:09, 37:03N, 37:05-37:06, 37:08, 37:10-37:11, 37:14-37:37, 38:20, 39:42, 44:02:01:01-44:03:19, 44:05:01-44:14, 44:16-44:17, 44:19N, 44:21-44:27:02, 44:29-44:30, 44:32-44:40, 44:42-44:46, 44:48-44:52N, 44:55, 44:57-44:61N, 44:63-44:64:02, 44:67-44:75, 44:78, 44:80-44:81, 44:83-44:98, 44:101-44:105, 44:107-44:117, 44:119-44:134, 44:136-44:137, 44:139-44:145, 44:147-44:149N, 44:151-44:157, 44:159-44:165, 46:33, 51:42, 56:09, 56:11, 57:16, 57:20, 57:36, 57:45, 57:51
	14										24	*13:13, 44:62, 44:77, 44:82, 56:12
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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

Lot No.: **80R**

Lot-specific information

Length of spec. PCR product(s)	90	150	240	190 230	90	170	80	250	160	115 270	205	235
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*13:16, 13:48, 13:62, 14:01:01-14:02:06, 14:04-14:09, 14:11, 14:14-14:18, 14:20-14:26, 14:28-14:33, 15:03:02, 15:39:02, 15:42, 18:15, 38:10, 38:32, 39:35, 40:95, 49:01:01, 49:01:03-49:05, 49:07-49:10, 49:12-49:21, 49:23-49:25, 50:01:01-50:01:02, 50:02, 50:04-50:16, 50:18-50:19, 52:07, 55:01:01-55:01:10, 55:03, 55:05, 55:11, 55:15, 55:17, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:53, 55:55N, 56:06, 56:25, 56:32, 56:37						6	7					
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*13:61, 35:01:28, 44:66, 44:118, C*03:102		2										
*14:10		2				6	7			10		
*14:13						6	7					
*14:19, 14:27			3			6	7					
*15:02:01-15:02:06, 15:13:01, 15:21, 15:25:01-15:25:03, 15:36, 15:44, 15:62, 15:77, 15:80, 15:85, 15:89, 15:106, 15:112, 15:121, 15:139, 15:144, 15:154, 15:165, 15:170, 15:194, 15:204, 15:213-15:214, 15:223, 15:240, 37:13, 44:146		2				6						
*15:20, 35:01:01:01-35:01:27, 35:01:29-35:01:36, 35:03:01-35:03:12, 35:06-35:07, 35:10, 35:13, 35:15-35:17, 35:19-35:20:02, 35:23, 35:25-35:30, 35:33-35:34, 35:36, 35:38-35:42:02, 35:47-35:50, 35:52, 35:54-35:56, 35:59, 35:62-35:63, 35:65Q, 35:69, 35:71, 35:74, 35:76-35:78, 35:82, 35:84-35:85, 35:90-35:94, 35:101:01-35:101:02, 35:103-35:104, 35:106-35:108:02, 35:110-35:113, 35:115-35:116, 35:120-35:126, 35:128, 35:130N-35:134N, 35:136-35:141, 35:143-35:148, 35:150, 35:152-35:153, 35:155, 35:159-35:161, 35:163, 35:165N-35:166, 35:168-35:171, 35:173N, 35:175, 35:177-35:181, 35:186, 35:189, 35:191, 35:193-35:198, 35:200, 35:202-35:204, 35:207, 35:209-35:210, 35:212, 35:214-35:219, 48:02:01, 53:01:01-53:01:07, 53:03-53:05, 53:07, 53:09-53:10, 53:12-53:13, 53:15, 53:17:01-53:18, 53:20-53:23, 53:25-53:27, 53:29		2										
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*15:228, 35:44, 35:67, 35:86, 35:99, 35:102, 35:117-35:118, 35:135, 51:01:25, 51:01:37, 51:02:05, 51:24:02-51:24:03, 51:36, 51:61:01-51:61:02, 51:71-51:72, 51:87, 51:91, 51:126, 52:01:07, 52:01:15, 52:21						6						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **80R**

Lot-specific information

165	165	90	145	55	70	95	85	440	180	150	95	Length of spec. PCR product(s)
		155		225	140		145			260		
				375			180					
							275					
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
	14											*13:16, 13:48, 13:62, 14:01:01-14:02:06, 14:04-14:09, 14:11, 14:14-14:18, 14:20-14:26, 14:28-14:33, 15:03:02, 15:39:02, 15:42, 18:15, 38:10, 38:32, 39:35, 40:95, 49:01:01, 49:01:03-49:05, 49:07-49:10, 49:12- 49:21, 49:23-49:25, 50:01:01-50:01:02, 50:02, 50:04- 50:16, 50:18-50:19, 52:07, 55:01:01-55:01:10, 55:03, 55:05, 55:11, 55:15, 55:17, 55:24-55:25, 55:28-55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:53, 55:55N, 56:06, 56:25, 56:32, 56:37
	14											*13:20, 15:13:02, 44:79, 48:25, 50:17, 55:14
	14											*13:61, 35:01:28, 44:66, 44:118, C*03:102
	14											*14:10
	14									24		*14:13
	14											*14:19, 14:27
	14											*15:02:01-15:02:06, 15:13:01, 15:21, 15:25:01- 15:25:03, 15:36, 15:44, 15:62, 15:77, 15:80, 15:85, 15:89, 15:106, 15:112, 15:121, 15:139, 15:144, 15:154, 15:165, 15:170, 15:194, 15:204, 15:213-15:214, 15:223, 15:240, 37:13, 44:146
	13											*15:20, 35:01:01:01-35:01:27, 35:01:29-35:01:36, 35:03:01-35:03:12, 35:06-35:07, 35:10, 35:13, 35:15- 35:17, 35:19-35:20:02, 35:23, 35:25-35:30, 35:33- 35:34, 35:36, 35:38-35:42:02, 35:47-35:50, 35:52, 35:54-35:56, 35:59, 35:62-35:63, 35:65Q, 35:69, 35:71, 35:74, 35:76-35:78, 35:82, 35:84-35:85, 35:90-35:94, 35:101:01-35:101:02, 35:103-35:104, 35:106- 35:108:02, 35:110-35:113, 35:115-35:116, 35:120- 35:126, 35:128, 35:130N-35:134N, 35:136-35:141, 35:143-35:148, 35:150, 35:152-35:153, 35:155, 35:159- 35:161, 35:163, 35:165N-35:166, 35:168-35:171, 35:173N, 35:175, 35:177-35:181, 35:186, 35:189, 35:191, 35:193-35:198, 35:200, 35:202-35:204, 35:207, 35:209-35:210, 35:212, 35:214-35:219, 48:02:01, 53:01:01-53:01:07, 53:03-53:05, 53:07, 53:09-53:10, 53:12-53:13, 53:15, 53:17:01-53:18, 53:20-53:23, 53:25- 53:27, 53:29
	14											*15:124, 40:77, 40:87:01-40:87:02, 40:222, 48:26
	13											*15:228, 35:44, 35:67, 35:86, 35:99, 35:102, 35:117- 35:118, 35:135, 51:01:25, 51:01:37, 51:02:05, 51:24:02- 51:24:03, 51:36, 51:61:01-51:61:02, 51:71-51:72, 51:87, 51:91, 51:126, 52:01:07, 52:01:15, 52:21
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **80R**

Lot-specific information

Length of spec. PCR product(s)	90	150	240	190 230	90	170	80	250	160	115 270	205	235
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*18:22, 18:69, 37:04:01-37:04:02		2								10		
*18:44:01-18:44:02											11	
*18:51												
*35:02:01-35:02:05, 35:04:01-35:04:03, 35:12:01-35:12:03, 35:83, 35:95, 35:129N, 35:149, 35:154, 35:162, 35:182-35:184, 35:201, 35:211, 35:220, 53:19		2										
*35:05:01-35:05:03, 35:51, 35:66, 35:72, 35:89, 35:97, 35:114, 53:14												
*35:08:01-35:08:06, 35:45, 35:61:01-35:61:02, 35:80, 35:100, 35:105, 35:142, 35:156, 35:158, 35:164, 35:176, 35:187, 35:192, 35:206, 53:11, 53:16, 53:24		2										
*35:09:01-35:09:03, 35:22, 35:88, 51:81, 51:148, 81:03												
*35:11:01, 35:167, 53:08:01		2				6	7					
*35:11:02, 35:14:01-35:14:02, 35:213, 53:08:02		2				6						
*35:11:03		2				6	w					
*35:18												
*35:21, 35:188, 53:06, 53:28		2				6	7			10		
*35:24:01-35:24:02, 35:109, 35:190, 53:02		2								10		
*35:32:01-35:32:02, 35:37, 35:53N, 35:64:01-35:64:02, 35:68:01-35:68:02, 35:119, 35:127, 35:151, 35:199, 35:205, 51:05, 51:08-51:10, 51:15, 51:19-51:20, 51:31, 51:40, 51:44N, 51:54, 51:73, 51:93, 51:97, 51:108, 51:115, 51:122, 51:141, 52:03, 52:10:01-52:10:02, 52:19, 78:04												
*35:35, 35:46, 35:98, 48:02:02-48:02:03		2										
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*35:70		2										
*35:75												
*35:81, 35:157, 51:139		2								10		
*35:96		2				6	7			10		
*35:172		2										
*35:174												
*35:208		2										
*40:28		2				6	7			10		
*44:04, 44:28:01-44:28:02, 44:56N		2										
*44:76		2				6	w					
*44:138Q												
*44:150		2				6						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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Lot No.: **80R**

Lot-specific information

165	165	90	145	55	70	95	85	440	180	150	95	Length of spec. PCR product(s)
		155		225	140		145			260		
				375			180					
							275					
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
	14											*18:22, 18:69, 37:04:01-37:04:02
	14											*18:44:01-18:44:02
	14						20					*18:51
13											24	*35:02:01-35:02:05, 35:04:01-35:04:03, 35:12:01-35:12:03, 35:83, 35:95, 35:129N, 35:149, 35:154, 35:162, 35:182-35:184, 35:201, 35:211, 35:220, 53:19
13						19						*35:05:01-35:05:03, 35:51, 35:66, 35:72, 35:89, 35:97, 35:114, 53:14
13				17								*35:08:01-35:08:06, 35:45, 35:61:01-35:61:02, 35:80, 35:100, 35:105, 35:142, 35:156, 35:158, 35:164, 35:176, 35:187, 35:192, 35:206, 53:11, 53:16, 53:24
13											24	*35:09:01-35:09:03, 35:22, 35:88, 51:81, 51:148, 81:03
13												*35:11:01, 35:167, 53:08:01
13												*35:11:02, 35:14:01-35:14:02, 35:213, 53:08:02
13												*35:11:03
13				17							24	*35:18
13												*35:21, 35:188, 53:06, 53:28
13												*35:24:01-35:24:02, 35:109, 35:190, 53:02
13												*35:32:01-35:32:02, 35:37, 35:53N, 35:64:01-35:64:02, 35:68:01-35:68:02, 35:119, 35:127, 35:151, 35:199, 35:205, 51:05, 51:08-51:10, 51:15, 51:19-51:20, 51:31, 51:40, 51:44N, 51:54, 51:73, 51:93, 51:97, 51:108, 51:115, 51:122, 51:141, 52:03, 52:10:01-52:10:02, 52:19, 78:04
13	14											*35:35, 35:46, 35:98, 48:02:02-48:02:03
13						19						*35:58
13									22			*35:70
13										23		*35:75
13											24	*35:81, 35:157, 51:139
13	14											*35:96
13				17							24	*35:172
13				17								*35:174
13								21				*35:208
	14										24	*40:28
	14			17								*44:04, 44:28:01-44:28:02, 44:56N
	14			17								*44:76
	14									23		*44:138Q
	14			17								*44:150
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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

Lot No.: **80R**

Lot-specific information

Length of spec. PCR product(s)	90	150	240	190 230	90	170	80	250	160	115 270	205	235
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*48:14					5							
*49:06						6	7					
*51:01:01-51:01:24, 51:01:26-51:01:36, 51:01:38-51:02:04, 51:03, 51:06:01-51:07:02, 51:11N-51:14, 51:16-51:18, 51:21-51:24:01, 51:24:04, 51:26-51:28, 51:30, 51:32-51:35, 51:37-51:39, 51:41N, 51:43, 51:45, 51:48-51:52, 51:57-51:60, 51:62-51:63, 51:65-51:70, 51:74-51:80, 51:83-51:86, 51:88-51:90, 51:92, 51:94-51:96, 51:98N-51:107, 51:109-51:114, 51:116-51:119, 51:121, 51:123-51:125, 51:127-51:138, 51:140, 51:142-51:147, 52:01:01:01-52:01:06, 52:01:08-52:01:14, 52:01:16-52:02, 52:04-52:06:02, 52:08-52:09, 52:11-52:18, 52:20, 52:22-52:23, 52:25-52:27, 52:30-52:31, 56:05:01-56:05:02, 56:21, 78:01:01-78:03, 78:05-78:07						6	7					
*51:04, 51:46, 51:56:01-51:56:02		2				6	7			10		
*51:29, 51:55, 51:82, 52:24						6	w					
*51:53, 51:120, 52:28-52:29							7					
*51:64						6	7					
*55:54							7					
*56:36												
*57:01:01-57:01:04, 57:01:06-57:01:10, 57:01:12-57:01:14, 57:06, 57:08, 57:10, 57:15, 57:18, 57:23-57:27, 57:29, 57:32-57:35, 57:37-57:38, 57:40-57:41, 57:43-57:44, 57:48-57:50, 57:52-57:56, 57:58, 57:60		2										
*57:01:05, 57:21, 57:31, 57:47												
*57:01:11		2										
*57:02:01-57:02:02, 57:05, 57:12, 57:42		2										
*57:03:01-57:03:02, 57:07, 57:17, 57:39, 57:46		2										
*57:04, 57:19, 57:28N, 57:30		2										
*57:09, 57:57		2				6						
*57:11			3								11	
*57:13						6						
*57:14		2								10		
*57:22		2				6						
*57:59		2			5							
*83:01		2										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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

Lot No.: **80R**

Lot-specific information

165	165	90	145	55	70	95	85	440	180	150	95	Length of spec. PCR product(s)
		155		225	140		145			260		
				375			180					
							275					
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
	14					19						*48:14
	14		16									*49:06
13												*51:01:01-51:01:24, 51:01:26-51:01:36, 51:01:38-51:02:04, 51:03, 51:06:01-51:07:02, 51:11N-51:14, 51:16-51:18, 51:21-51:24:01, 51:24:04, 51:26-51:28, 51:30, 51:32-51:35, 51:37-51:39, 51:41N, 51:43, 51:45, 51:48-51:52, 51:57-51:60, 51:62-51:63, 51:65-51:70, 51:74-51:80, 51:83-51:86, 51:88-51:90, 51:92, 51:94-51:96, 51:98N-51:107, 51:109-51:114, 51:116-51:119, 51:121, 51:123-51:125, 51:127-51:138, 51:140, 51:142-51:147, 52:01:01:01-52:01:06, 52:01:08-52:01:14, 52:01:16-52:02, 52:04-52:06:02, 52:08-52:09, 52:11-52:18, 52:20, 52:22-52:23, 52:25-52:27, 52:30-52:31, 56:05:01-56:05:02, 56:21, 78:01:01-78:03, 78:05-78:07
13											24	*51:04, 51:46, 51:56:01-51:56:02
13												*51:29, 51:55, 51:82, 52:24
13												*51:53, 51:120, 52:28-52:29
13											24	*51:64
	14											*55:54
13	14											*56:36
	14	15										*57:01:01-57:01:04, 57:01:06-57:01:10, 57:01:12-57:01:14, 57:06, 57:08, 57:10, 57:15, 57:18, 57:23-57:27, 57:29, 57:32-57:35, 57:37-57:38, 57:40-57:41, 57:43-57:44, 57:48-57:50, 57:52-57:56, 57:58, 57:60
	14	15										*57:01:05, 57:21, 57:31, 57:47
		15										*57:01:11
	14	15		17							24	*57:02:01-57:02:02, 57:05, 57:12, 57:42
	14	15									24	*57:03:01-57:03:02, 57:07, 57:17, 57:39, 57:46
	14	15		17								*57:04, 57:19, 57:28N, 57:30
	14	15									24	*57:09, 57:57
	14	15										*57:11
	14	15		17								*57:13
	14	15										*57:14
	14	15										*57:22
	14	15										*57:59
?	?											*83:01
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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

Lot No.: **80R**

Lot-specific information

Length of spec. PCR product(s)	90	150	240	190	90	170	80	250	160	115	205	235
				230						270		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
A*02:01:33									9			
A*02:42, A*02:310												
A*24:64, C*01:06, C*16:43											w	
C*01:35, C*03:17, C*03:71, C*14:20			3									
C*01:49-01:50, C*03:28, C*03:49, C*03:117, C*04:80, C*04:100, C*04:110, C*05:10, C*15:08												
C*02:60												
C*03:119, C*07:165, C*07:241, C*07:265, C*15:02:13							7					
C*03:141, C*15:18, C*15:39									10			
C*07:81, C*07:168					5							
C*15:24												
HLA-B allele^{4,5}												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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

Lot No.: **80R**

Lot-specific information

165	165	90	145	55	70	95	85	440	180	150	95	Length of spec. PCR product(s)
		155		225	140		145			260		
				375			180					
							275					
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												A*02:01:33
		15										A*02:42, A*02:310
												A*24:64, C*01:06, C*16:43
												C*01:35, C*03:17, C*03:71, C*14:20
				17								C*01:49-01:50, C*03:28, 03:49, C*03:117, C*04:80, C*04:100, C*04:110, C*05:10, C*15:08
						19						C*02:60
												C*03:119, C*07:165, C*07:241, C*07:265, C*15:02:13
												C*03:141, C*15:18, C*15:39
												C*07:81, C*07:168
											24	C*15:24
												HLA-B allele ^{4,5}
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **80R**

Lot-specific information

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

Well number 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*58 subtyping.

In addition, wells number 2, 3, 7, 9, 10 and 19 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.

²The nucleotide position, in the 2nd, 3rd or 4th exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The nucleotide position, in the 2nd, 3rd or 4th exon or the 3rd 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 web site. The sequence of the 3 terminal nucleotides of the primer is given.

⁴The B*5803 allele was never assigned.

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

⁵HLA-B*58 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.10.0, October 2012.

⁶The B*58:09 and B*58:24 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 10.

⁷The B*58:21 and B*58:29 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 20.

⁹Primer mix 4: Specific PCR fragment of 190 bp in the B*58:04 allele. Specific PCR fragment of 230 bp in the B*58:15 allele.

Primer mix 10: Specific PCR fragment of 115 bp in the B*58:24 and the C*03:141 and C*15:18 alleles. Specific PCR fragment of 270 bp in the B*58:09 and the B*14:10, 18:22, 18:69, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 35:190, 37:04:01-37:04:02, 40:28, 51:04, 51:46, 51:56:01-51:56:02, 53:02, 53:06, 53:28 and 57:14 and in the C*15:39 alleles.

Primer mix 15: Specific PCR fragment of 90 bp in the B*58:36 and the B*57:01:01-57:15, 57:17-57:19, 57:21-57:35, 57:37-57:44, 57:46-57:50 and B*57:52-57:60 alleles. Specific PCR fragment of 155 bp in the B*58:12 and the B*57:58 and the A*02:42 and 02:310 alleles

Primer mix 17: Specific PCR fragment of 55 and 225 bp in the B*35:08:03 and the C*01:49 alleles.

Specific PCR fragment of 225 bp in the B*58:22 and 07:12, 07:14, 07:18:01-07:18:02, 07:137, 07:162-07:163, 35:08:01-35:08:06, 35:18, 35:45, 35:61:01-35:61:02, 35:80, 35:100, 35:105, 35:142, 35:156, 35:158, 35:164, 35:172, 35:174, 35:176, 35:187, 35:192, 35:206, 44:04, 44:28:01-44:28:02, 44:56N, 44:76, 44:150, 53:11, 53:16, 53:24, 57:02:01-57:02:02, 57:04-57:05, 57:12-57:13, 57:19, 57:28N, 57:30 and 57:42 and in the C*01:49-01:50, C*03:28, 03:49, 03:117 and the C*04:80, 04:100, 04:110, C*05:10 and C*15:08 alleles

Specific PCR fragment of 375 bp in the B*58:16 and 58:18 alleles.

Primer mix 18: Specific PCR fragment of 70 bp in the B*58:25 allele. Specific PCR fragment of 140 bp in the B*58:17N allele.

Primer mix 20: Specific PCR fragment of 85 bp and 180bp in the B*58:29 allele. Specific PCR fragment of 145 bp in the the B*58:39N allele. Specific PCR fragment of 180 bp in the the B*18:51 allele. Specific PCR fragment of 180 bp and 275 bp in the B*58:21 allele.

Primer mix 23: Specific PCR fragment of 150 bp in the B*58:26 and the B*35:75 and 44:138Q alleles. Specific PCR fragment of 260 bp in the B*58:31N allele.

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

'w', might be weakly amplified.

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **80R**

Lot-specific information

CELL LINE VALIDATION SHEET																			
HLA-B*58 SSP subtyping kit																			
			Prod. No.:	Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				201298701	201298702	201298703	201298704	201312705	201298706	201312707	201298708	201312709	201298710	201298711	201298712	201298713	201298714	201312715	201298716
	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	9025 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	-	+	-	-	-	-	-	-	-	-	-	-	+	+	-	-

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **80R**

Lot-specific information

CELL LINE VALIDATION SHEET											
HLA-B*58 SSP subtyping kit											
				Well							
				17	18	19	20	21	22	23	24
			Prod. No.:	201298717	201298718	201298719	201312720	201298721	201298722	201312723	201298724
	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	9025 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	-	-	-	-	-	-	-	-

101.568-06 – including *Taq* polymerase, IFU-01
 101.568-06u – without *Taq* polymerase, IFU-02

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

Lot No.: **80R**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B*58 SSP

Product number: 101.568-06 – including *Taq* polymerase
 101.568-06u – without *Taq* polymerase
 Lot number: 80R
 Expiry date: 2015-September -01
 Number of tests: 6
 Number of wells per test: 24

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2012-987-01	9	2013-127-09	17	2012-987-17
2	2012-987-02	10	2012-987-10	18	2012-987-18
3	2012-987-03	11	2012-987-11	19	2012-987-19
4	2012-987-04	12	2012-987-12	20	2013-127-20
5	2013-127-05	13	2012-987-13	21	2012-987-21
6	2012-987-06	14	2012-987-14	22	2012-987-22
7	2013-127-07	15	2013-127-15	23	2013-127-23
8	2012-987-08	16	2012-987-16	24	2012-987-24

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

No DNAs carrying the alleles to be amplified by primer solutions 4, 5, 8 to 10, 12, 16, 18, and 20 to 23 were available. The specificities of the primers in primer solutions 5, 8 to 10 and 23 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solution 4, 18, 20 and 21 it was only possible to test the 5'-primer, the 3'-primer was not possible to test. In primer solutions 12, 16 and 22 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 9, 10 and 23, one 3'-primer was not possible to test. Additional primers in primer solutions 15 and 17 were tested by separately adding one additional 5'-primers and respectively one additional 3'-primer.

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

Date of approval: 2013-April-05

Approved by:

Production Quality Control

101.568-06 – including *Taq* polymerase, IFU-01
101.568-06u – without *Taq* polymerase, IFU-02

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

Lot No.: **80R**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*58
Product number: 101.568-06/06u
Lot number: 80R

Intended use: HLA-B*58 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 13485:2012, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

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

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

Stockholm, Sweden
2013-April-05

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.568-06 – including *Taq* polymerase, IFU-01
101.568-06u – without *Taq* polymerase, IFU-02

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Lot No.: **80R**

Lot-specific information

101.568-06 – including *Taq* polymerase, IFU-01
101.568-06u – without *Taq* polymerase, IFU-02

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

Lot No.: **80R**

Lot-specific information

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