

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **81R**

Lot-specific information
Olerup SSP[®] DRB1*14

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Product number:	101.117-12/03 – including <i>Taq</i> pol. 101.117-12u/03u – without <i>Taq</i> pol.
Lot number:	81R
Expiry date:	2015-July-01
Number of tests:	12 tests – Product No. 101.117-12/12u 3 tests – Product No. 101.117-03/03u
Number of wells per test:	48
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. 81R.

**CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*[®]
DRB1*14 LOT (77M)**

The DRB1*14 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 DRB1*14 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

The DRB1*14 specificity and interpretation tables have been updated for the DRB1 alleles reported since the previous *Olerup SSP*[®] DRB1*14 lot (**Lot No. 77M**) was made.

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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
2	-	Added	3'-primer added for the DRB1*14:54:02 allele.
7	-	Added	3'-primer added for the DRB1*14:122 allele.
11	Moved	Moved	Primer pair moved to well 42, for improved allelic resolution.
23	-	Added	Added 3'-primer from well 28.
28	Moved	Moved	Primer pair moved to well 23, for improved allelic resolution.
35	Added	-	5'-primer added for the DRB1*14:113 allele.
38	-	Added	3'-primer added for the DRB1*14:44:02 allele.
42	-	Added	Added 3'-primer from well 11.
44	Added	-	5'-primer added for the DRB1*14:113 allele.

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PRODUCT DESCRIPTION

DRB1*14 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DRB1*14:01 to DRB1*14:131 alleles.

PLATE LAYOUT

Each test consists of 48 PCR reactions in a 48 well cut PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48

The 48 well cut PCR plate is marked with 'DRB1*14' in silver/gray ink.

Well No. 1 is marked with the Lot No. '81R'.

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

The PCR plates are covered with a PCR-compatible foil.

Please note: When removing each 48 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

The interpretation of DRB1*14 PCR-SSP subtypings will be influenced by thirteen DRB1*01, the DRB1*03, fourteen DRB1*04, most DRB1*08, most DRB1*11, the DRB1*12, the DRB1*13, nine DRB1*15 alleles and the DRB1*16:08 allele, when present on the other haplotype. In addition, the DRB3*01:08 allele will be amplified by primer mix 39, the DRB3*01:14 allele will be amplified by primer mixes 5, 18, 22, 24 and 29, and the DRB3*02:16 allele will be amplified by primer mix 25.

UNIQUELY IDENTIFIED ALLELES

All the DRB1*14 alleles, i.e. **DRB1*14:01 to DRB1*14:131**, recognized by the HLA Nomenclature Committee in October 2012^{1,2} will be amplified by the primers in the DRB1*14 subtyping kit.

The DRB1*14 kit enables separation of the confirmed DRB1*14 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 DRB1*14 alleles is listed below.

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The DRB1*14 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 DRB1*14:26 and DRB1*14:110 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 24.

The DRB1*14 subtyping kit cannot distinguish the silent mutations in the DRB1*14:01:01-14:01:03 alleles, the DRB1*14:03:01-14:03:02 alleles, the DRB1*14:05:01 and 14:05:04 alleles, the DRB1*14:06:01-14:06:02 alleles, the DRB1*14:07:01-14:07:02 alleles, the DRB1*14:12:01-14:12:02 alleles, the DRB1*14:23:01-14:23:03 alleles, the DRB1*14:32:01-14:32:02 alleles, the DRB1*14:54:01-14:54:02 alleles or the DRB1*14:44:01 and 14:44:03 alleles.

¹The DRB1*14 primer set cannot separate the DRB1*14:21 and DRB1*03:76 alleles. These alleles can be distinguished by the DR low resolution and/or DRB1*03 kits.

The DRB1*14 primer set cannot separate the DRB1*14:116 and the DRB1*13:47 alleles. These alleles can be distinguished by the DR low resolution and/or DRB1*13 kits.

²DRB alleles listed on the IMGT/HLA web page 2012-October-17, release 3.10.0, www.ebi.ac.uk/imgt/hla.

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www.olerup-ssp.com**ALLELE CONFIRMATION STATUS**

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
DRB1*14:01:01	Confirmed	DRB1*14:30	Confirmed	DRB1*14:67	Unconfirmed	DRB1*14:107	Unconfirmed
DRB1*14:01:02	Confirmed	DRB1*14:31	Unconfirmed	DRB1*14:68	Confirmed	DRB1*14:108	Unconfirmed
DRB1*14:01:03	Unconfirmed	DRB1*14:32:01	Unconfirmed	DRB1*14:69	Unconfirmed	DRB1*14:109	Unconfirmed
DRB1*14:02	Confirmed	DRB1*14:32:02	Unconfirmed	DRB1*14:70	Confirmed	DRB1*14:110	Unconfirmed
DRB1*14:03:01	Confirmed	DRB1*14:33	Confirmed	DRB1*14:71	Confirmed	DRB1*14:111	Unconfirmed
DRB1*14:03:02	Unconfirmed	DRB1*14:34	Unconfirmed	DRB1*14:72	Confirmed	DRB1*14:112	Unconfirmed
DRB1*14:04	Confirmed	DRB1*14:35	Unconfirmed	DRB1*14:73	Unconfirmed	DRB1*14:113	Confirmed
DRB1*14:05:01	Confirmed	DRB1*14:36	Unconfirmed	DRB1*14:74	Confirmed	DRB1*14:114	Unconfirmed
DRB1*14:05:02	Unconfirmed	DRB1*14:37	Unconfirmed	DRB1*14:75	Unconfirmed	DRB1*14:115	Unconfirmed
DRB1*14:05:03	Unconfirmed	DRB1*14:38	Unconfirmed	DRB1*14:76	Confirmed	DRB1*14:116	Unconfirmed
DRB1*14:05:04	Unconfirmed	DRB1*14:39	Unconfirmed	DRB1*14:77	Unconfirmed	DRB1*14:117	Unconfirmed
DRB1*14:06:01	Confirmed	DRB1*14:40	Unconfirmed	DRB1*14:78	Unconfirmed	DRB1*14:118	Unconfirmed
DRB1*14:06:02	Confirmed	DRB1*14:41	Confirmed	DRB1*14:79	Unconfirmed	DRB1*14:119	Unconfirmed
DRB1*14:07:01	Confirmed	DRB1*14:42	Unconfirmed	DRB1*14:80	Unconfirmed	DRB1*14:120	Unconfirmed
DRB1*14:07:02	Unconfirmed	DRB1*14:43	Unconfirmed	DRB1*14:81	Unconfirmed	DRB1*14:121	Unconfirmed
DRB1*14:08	Confirmed	DRB1*14:44:01	Unconfirmed	DRB1*14:82	Confirmed	DRB1*14:122	Confirmed
DRB1*14:09	Confirmed	DRB1*14:44:02	Unconfirmed	DRB1*14:83	Unconfirmed	DRB1*14:123	Unconfirmed
DRB1*14:10	Confirmed	DRB1*14:44:03	Unconfirmed	DRB1*14:84	Unconfirmed	DRB1*14:124	Unconfirmed
DRB1*14:11	Confirmed	DRB1*14:45	Unconfirmed	DRB1*14:85	Unconfirmed	DRB1*14:125	Unconfirmed
DRB1*14:12:01	Confirmed	DRB1*14:46	Confirmed	DRB1*14:86	Unconfirmed	DRB1*14:126	Unconfirmed
DRB1*14:12:02	Unconfirmed	DRB1*14:47	Unconfirmed	DRB1*14:87	Confirmed	DRB1*14:127	Unconfirmed
DRB1*14:13	Confirmed	DRB1*14:48	Confirmed	DRB1*14:88	Unconfirmed	DRB1*14:128	Unconfirmed
DRB1*14:14	Confirmed	DRB1*14:49	Confirmed	DRB1*14:89	Confirmed	DRB1*14:129	Unconfirmed
DRB1*14:15	Confirmed	DRB1*14:50	Unconfirmed	DRB1*14:90	Confirmed	DRB1*14:130	Unconfirmed
DRB1*14:16	Confirmed	DRB1*14:51	Unconfirmed	DRB1*14:91	Unconfirmed	DRB1*14:131	Unconfirmed
DRB1*14:17	Confirmed	DRB1*14:52	Confirmed	DRB1*14:92N	Unconfirmed		
DRB1*14:18	Confirmed	DRB1*14:53	Unconfirmed	DRB1*14:93	Unconfirmed		
DRB1*14:19	Confirmed	DRB1*14:54:01	Confirmed	DRB1*14:94	Unconfirmed		
DRB1*14:20	Confirmed	DRB1*14:54:02	Unconfirmed	DRB1*14:95	Confirmed		
DRB1*14:21	Confirmed	DRB1*14:55	Unconfirmed	DRB1*14:96	Unconfirmed		
DRB1*14:22	Confirmed	DRB1*14:56	Unconfirmed	DRB1*14:97	Confirmed		
DRB1*14:23:01	Confirmed	DRB1*14:57	Unconfirmed	DRB1*14:98	Unconfirmed		
DRB1*14:23:02	Unconfirmed	DRB1*14:58	Unconfirmed	DRB1*14:99	Confirmed		
DRB1*14:23:03	Unconfirmed	DRB1*14:59	Unconfirmed	DRB1*14:100	Unconfirmed		
DRB1*14:24	Confirmed	DRB1*14:60	Unconfirmed	DRB1*14:101	Confirmed		
DRB1*14:25	Confirmed	DRB1*14:61	Confirmed	DRB1*14:102	Unconfirmed		
DRB1*14:26	Unconfirmed	DRB1*14:62	Unconfirmed	DRB1*14:103	Confirmed		
DRB1*14:27	Unconfirmed	DRB1*14:63	Unconfirmed	DRB1*14:104	Unconfirmed		
DRB1*14:28	Unconfirmed	DRB1*14:64	Unconfirmed	DRB1*14:105	Unconfirmed		
DRB1*14:29	Confirmed	DRB1*14:65	Unconfirmed	DRB1*14:106	Confirmed		

¹ Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-October-17, release 3.10.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 145 alleles generate 121 amplification patterns that can be combined in 7381 homozygous and heterozygous combinations. 2061 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.

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www.olerup-ssp.com**SPECIFICITY TABLE****DRB1*14 SSP subtyping**

Specificities and sizes of the PCR products of the 48 primer mixes used for
 DRB1*14 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of contr. band ²	Amplified DRB1*14 alleles ³	Other amplified DRB alleles ⁴
1	210 bp	515 bp	*14:01:01-14:01:03, 14:05:01-14:05:04, 14:07:01-14:08, 14:14, 14:18, 14:23:01-14:23:03, 14:26, 14:32:01-14:32:02, 14:34-14:36, 14:38-14:39, 14:42-14:45, 14:54:01-14:54:02, 14:55 ^w , 14:56, 14:58-14:60, 14:62, 14:64-14:65, 14:70, 14:72, 14:75, 14:81-14:82, 14:86-14:88, 14:90-14:92N, 14:95-14:97, 14:99-14:101, 14:103, 14:110, 14:112-14:114, 14:117-14:118, 14:122-14:125, 14:127, 14:129-14:131	*11:13:01-11:13:02, 11:17, 11:52, 11:89
2⁸	175 bp	430 bp	*14:01:01-14:01:03, 14:07:01-14:08, 14:16, 14:22, 14:25-14:26, 14:32:01-14:32:02, 14:34-14:35, 14:38-14:39, 14:49, 14:53-14:55, 14:58, 14:60, 14:62, 14:69-14:70, 14:72, 14:74-14:75, 14:82, 14:86-14:88, 14:90, 14:92N, 14:97, 14:99, 14:101, 14:104-14:105, 14:110-14:114, 14:117-14:119, 14:122, 14:124-14:125, 14:128-14:131	*03:10, 11:31, 11:52, 11:96, 13:43, 13:45
3	140 bp	430 bp	*14:02, 14:06:01-14:06:02, 14:09, 14:13, 14:17, 14:19, 14:21, 14:29-14:30, 14:33, 14:46-14:48, 14:51-14:52, 14:80, 14:83, 14:106, 14:108-14:109, 14:121	*03:76, 13:10, 13:85, 13:120

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4⁵	85 bp	430 bp	*14:02-14:03:02, 14:06:01-14:06:02, 14:12:01-14:13, 14:18-14:20, 14:24, 14:27, 14:29, 14:40-14:41, 14:47-14:49, 14:51, 14:63, 14:67, 14:77-14:78, 14:81, 14:83, 14:85, 14:89, 14:94, 14:98, 14:106, 14:108-14:109, 14:115	*03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74, 13:15, 13:19, 13:26:01-13:26:02, 13:53, 13:57, 13:85, 13:104
5	260 bp	430 bp	*14:02-14:03:02, 14:07:01-14:07:02, 14:09, 14:13-14:14, 14:19, 14:22, 14:24-14:25, 14:27, 14:30, 14:36, 14:40-14:42, 14:44:01-14:44:03, 14:47-14:49, 14:51, 14:53, 14:63, 14:67, 14:69, 14:77, 14:85, 14:89, 14:94, 14:98, 14:102, 14:109, 14:115-14:116, 14:119	*03:02:01-03:02:02, 03:05:01-03:05:03, 03:09, 03:14, 03:17, 03:27, 03:29, 03:35, 03:38, 03:40-03:41, 03:53, 03:74, 03:81, 11:01:01-11:01:17, 11:08:01-11:12:02, 11:14:01-11:15, 11:19:01-11:20, 11:23-11:24, 11:26-11:29, 11:31-11:33, 11:37:01-11:37:02, 11:39, 11:45, 11:49:01-11:49:02, 11:51, 11:53, 11:61-11:62, 11:64, 11:66, 11:68-11:69, 11:72-11:75, 11:79-11:82, 11:87, 11:90-11:91, 11:93-11:97, 11:99-11:101, 11:103, 11:105-11:112, 11:114, 11:117, 11:120-11:122, 11:125-11:126, 11:128, 11:133-11:134, 13:02:01-13:02:03, 13:02:05-13:03:06, 13:05:01-13:05:02, 13:07:01-13:07:02, 13:12:01-13:14:03, 13:21:01-13:21:02, 13:23:01-13:23:02, 13:25-13:26:02, 13:29-13:31, 13:33:01-13:34, 13:36-13:39, 13:41, 13:45-13:47, 13:49-13:50:02, 13:55-13:56, 13:60, 13:62-13:63, 13:65-13:66:02, 13:73-13:74, 13:82, 13:85-13:86, 13:88, 13:90, 13:95-13:97:02, 13:99-13:101, 13:104, 13:107, 13:115, 13:118-13:120, 13:122-13:124, 13:126, 13:128, 13:132-13:136, 13:139-13:140, 13:142N-13:143, DRB3*01:14
6	260 bp	515 bp	*14:01:01-14:01:03, 14:05:01-14:06:02, 14:08, 14:12:01-14:12:02, 14:16-14:18, 14:20-14:21, 14:23:01-14:23:03, 14:26, 14:29, 14:32:01-14:35,	*03:01:01:01-03:01:20, 03:03-03:04:02, 03:06-03:08, 03:10-03:13:02, 03:15-03:16, 03:18-03:26, 03:28, 03:30-03:34, 03:36-03:37, 03:39, 03:43-03:52,

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		14:37-14:39, 14:43, 14:45, 14:54:01-14:56, 14:58-14:60, 14:62, 14:64-14:65, 14:70, 14:72, 14:74-14:75, 14:78, 14:80-14:84, 14:86-14:88, 14:90-14:92N, 14:95-14:97, 14:99-14:101, 14:103-14:106, 14:108, 14:110-14:114, 14:117-14:118, 14:121- 14:125, 14:127-14:131		03:54-03:56, 03:58-03:62, 03:64- 03:68N, 03:70-03:73, 03:75- 03:84, 03:86, 08:20, 11:02:01- 11:04:10, 11:06:01-11:07, 11:13:01-11:13:02, 11:16-11:18, 11:21, 11:25, 11:34-11:36, 11:38, 11:40-11:44, 11:46:01-11:48, 11:50, 11:52, 11:54:01-11:60, 11:63, 11:65:01-11:65:02, 11:70, 11:76-11:78, 11:83-11:85, 11:88- 11:89, 11:92, 11:98, 11:102:01- 11:102:02, 11:113, 11:115- 11:116, 11:118-11:119, 11:123- 11:124, 11:127, 11:129, 11:131- 11:132, 13:01:01-13:01:13, 13:04, 13:06, 13:08-13:11:02, 13:15, 13:18-13:20, 13:22, 13:24, 13:27-13:28, 13:32, 13:35, 13:40, 13:42-13:44, 13:48, 13:51-13:54, 13:57-13:59, 13:61:01-13:61:02, 13:64, 13:68-13:72, 13:75-13:81, 13:83-13:84, 13:87, 13:89, 13:91- 13:94, 13:98, 13:102, 13:105- 13:106, 13:108, 13:110-13:114, 13:117, 13:121, 13:125, 13:127, 13:129-13:131, 13:137N-13:138, 13:141	
7	225 bp	430 bp	*14:03:01-14:03:02, 14:12:01- 14:12:02, 14:27, 14:40, 14:45, 14:55, 14:63, 14:67, 14:77- 14:78, 14:84-14:85, 14:89, 14:102, 14:115-14:116, 14:122	*08:20, 11:23, 11:25, 11:45, 11:55, 11:64, 11:119, 13:13, 13:18, 13:47, 13:55, 13:119	
8	170 bp	430 bp	*14:04, 14:28, 14:31, 14:50, 14:61, 14:68, 14:71, 14:73, 14:76, 14:79, 14:93, 14:107, 14:120	*08:08, 08:11 ^w	
9⁹	130 bp, 250 bp	430 bp	*14:05:01-14:05:04, 14:37, 14:43, 14:45, 14:56, 14:62, 14:65, 14:78, 14:84, 14:91, 14:96, 14:100, 14:103, 14:127, 14:130	*03:12, 04:10:01-04:12, 04:67, 04:91, 04:126, 08:06, 08:10, 08:12, 08:22, 13:04, 13:32, 13:48, 13:58, 13:72, 13:75, 13:81, 13:89, 13:93-13:94, 13:108, 15:12	
10	175 bp	430 bp	*14:10, 14:39, 14:57	*04:62, 04:69	

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11 ^{5,6}	85 bp	430 bp	*14:16, 14:22, 14:25, 14:31-14:32:02, 14:34, 14:49, 14:53, 14:69, 14:74, 14:105, 14:119, 14:128	*01:14, 04:62, 13:43, 13:45
12	225 bp	515 bp	*14:01:01-14:01:03, 14:05:01-14:05:04, 14:07:01-14:08, 14:14, 14:18, 14:23:01-14:23:03, 14:26, 14:33, 14:35-14:36, 14:38-14:39, 14:42-14:45, 14:51, 14:54:01-14:54:02, 14:56, 14:58-14:60, 14:62, 14:64, 14:70, 14:72, 14:75, 14:82, 14:86, 14:88, 14:90-14:92N, 14:95-14:97, 14:99, 14:101, 14:103, 14:106, 14:110, 14:112-14:114, 14:117-14:118, 14:122, 14:124-14:125, 14:127, 14:129-14:131	*03:11:01, 03:17, 03:24, 03:27, 03:35, 03:81, 11:17, 11:52-11:54:02, 11:89, 13:76
13 ^{5,7}	115 bp	430 bp	*14:01:01-14:01:03, 14:04, 14:07:01-14:08, 14:10, 14:16, 14:22, 14:26, 14:28, 14:31-14:32:02, 14:34-14:35, 14:38-14:39, 14:49-14:50, 14:54:01-14:55, 14:60-14:62, 14:68, 14:70-14:75, 14:79, 14:82, 14:86-14:88, 14:90, 14:92N-14:93, 14:97, 14:99, 14:104-14:105, 14:107, 14:110-14:114, 14:117-14:120, 14:122, 14:124-14:125, 14:129-14:131	*03:10, 11:52, 13:43
14 ^{5,10}	60 bp, 130 bp	515 bp	*14:22, 14:25, 14:27, 14:53, 14:73, 14:105, 14:128	*08:08, 11:09, 11:28:01-11:28:02, 11:58:01-11:58:02, 11:83, 11:87, 11:113, 11:115, 13:05:01-13:05:02, 13:18, 13:26:01-13:26:02, 13:42, 13:50:01-13:50:02, 13:136, 16:08
15	185 bp	430 bp	*14:28-14:29, 14:99	*03:20, 12:05, 12:14-12:15
16 ^{5,7,8}	105 bp	430 bp	*14:05:01-14:05:02, 14:05:04, 14:08, 14:11, 14:14, 14:18, 14:23:01-14:23:03, 14:34, 14:36, 14:42-14:44:01, 14:44:03-14:45, 14:56, 14:59, 14:64, 14:72, 14:91, 14:95-14:96, 14:100, 14:123,	*01:02:01-01:02:05, 01:02:08, 01:23, 01:26, 01:34, 01:43-01:44, 01:46, 03:01:17, 04:06:05, 08:02:04, 11:01:05, 11:01:10, 11:04:03, 11:06:02, 11:13:01-11:13:02, 11:17, 11:52, 11:54:01, 12:04, 12:09, 13:01:03, 13:76

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		14:126, 14:130		
17	220 bp	430 bp	*14:19, 14:21, 14:43, 14:109	*03:76, 11:73, 11:79, 11:93, 11:131-11:132, 13:03:01-13:03:06, 13:10, 13:33:01-13:33:03, 13:37, 13:66:01-13:66:02, 13:81, 13:85, 13:88-13:90, 13:94-13:95, 13:101, 13:115, 13:120, 13:122, 13:133
18^{5,7}	85 bp	430 bp	*14:01:01-14:01:03, 14:05:01-14:05:04, 14:07:01-14:09, 14:14, 14:16-14:17, 14:21-14:23:03, 14:25-14:26, 14:30, 14:32:01-14:39, 14:42-14:45, 14:53-14:56, 14:58-14:60, 14:62, 14:64-14:65, 14:69, 14:72, 14:74-14:75, 14:80, 14:82, 14:84, 14:86-14:88, 14:90-14:92N, 14:95-14:97, 14:99-14:101, 14:103-14:105, 14:110-14:114, 14:116-14:119, 14:122-14:123, 14:125, 14:127-14:131	*03:01:01:01-03:01:17, 03:01:19-03:01:20, 03:04:01-03:26, 03:28, 03:30-03:37, 03:39-03:41, 03:43-03:52, 03:54-03:59, 03:61-03:68N, 03:70-03:73, 03:75-03:84, 03:86, 08:20, 11:01:01-11:04:10, 11:06:01-11:21, 11:23-11:29, 11:31-11:66, 11:68-11:70, 11:73-11:91, 11:93-11:103, 11:105-11:120, 11:122-11:129, 11:131-11:134, 13:01:01-13:14:03, 13:16, 13:18, 13:20-13:25, 13:27-13:52, 13:54-13:56, 13:58-13:66:02, 13:68-13:84, 13:87-13:100, 13:102, 13:105-13:115, 13:117-13:143, DRB3*01:14
19	145 bp	430 bp	*14:15-14:16, 14:40, 14:55, 14:57, 14:77, 14:84	*08:09, 08:21, 08:35, 13:08, 13:19, 13:57, 13:64, 13:72, 13:76, 13:83, 13:107, 13:135
20^{5,11}	110 bp, 160 bp, 215 bp	430 bp	*14:04, 14:15, 14:25, 14:28, 14:31, 14:50, 14:53, 14:58, 14:68-14:69, 14:71, 14:73, 14:76, 14:79, 14:93, 14:102, 14:107, 14:116, 14:120, 14:128	*08:01:01-08:04:07, 08:06-08:17, 08:19-08:23, 08:26-08:28, 08:30:01-08:30:03, 08:32-08:39, 08:42, 08:44-08:46, 08:48-08:49, 11:23, 11:25, 11:45, 11:55, 11:64, 11:67, 11:119, 13:13, 13:45, 13:47, 13:55
21¹²	170 bp, 215 bp	515 bp	*14:13, 14:24, 14:37, 14:63, 14:65, 14:78, 14:85	*03:12, 11:69, 11:82, 13:03:01-13:04, 13:09, 13:12:01-13:13, 13:21:01-13:21:02, 13:30, 13:32-13:33:03, 13:38, 13:48-13:49, 13:55, 13:58, 13:65-13:66:02, 13:75, 13:81, 13:88-13:90, 13:93-13:95, 13:101, 13:108, 13:115, 13:118, 13:120, 13:122, 13:129, 13:133-13:134, 13:139

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Lot No.	145 bp	430 bp	Lot-specific information	www.olerup-ssp.com
22	145 bp	430 bp	*14:01:01-14:03:02, 14:05:01-14:09, 14:12:01-14:14, 14:16, 14:18-14:20, 14:22-14:27, 14:29, 14:32:01-14:32:02, 14:34, 14:36-14:41, 14:43-14:45, 14:47-14:49, 14:51, 14:54:01-14:56, 14:58-14:60, 14:62-14:63, 14:67, 14:69-14:70, 14:74-14:75, 14:77-14:78, 14:80-14:92N, 14:94, 14:96-14:106, 14:108-14:119, 14:121-14:125, 14:127, 14:129-14:131	*03:02:01-03:03, 03:06, 03:17, 03:26-03:27, 03:31, 03:35, 03:38, 03:41, 03:60, 03:74-03:75, 03:80, 08:20, 11:17, 11:37:01-11:37:02, 11:41, 11:48, 11:50, 11:52, 11:56, 11:83, 11:107, 13:03:01-13:03:06, 13:07:01-13:08, 13:12:01-13:13, 13:19, 13:26:01-13:26:02, 13:32-13:33:03, 13:36-13:38, 13:40, 13:47-13:49, 13:53, 13:55, 13:58, 13:60, 13:65, 13:70, 13:72, 13:76, 13:81, 13:84-13:85, 13:88-13:90, 13:94-13:95, 13:101, 13:108, 13:115, 13:118, 13:120, 13:122, 13:133-13:135, DRB3*01:14
23^{6,13}	145 bp, 165 bp	430 bp	*14:17, 14:21, 14:30, 14:33, 14:35, 14:42, 14:53, 14:64-14:65, 14:72, 14:88, 14:95, 14:128	*03:01:01:01-03:01:20, 03:04:01-03:05:03, 03:07-03:15, 03:18-03:25, 03:28-03:30, 03:32-03:34, 03:36-03:37, 03:39-03:40, 03:43-03:52, 03:54-03:59, 03:61-03:68N, 03:70-03:73, 03:76-03:79, 03:81, 03:83-03:84, 03:86, 11:01:01-11:01:06, 11:01:08-11:04:10, 11:06:01-11:16, 11:18-11:21, 11:23-11:29, 11:31-11:36, 11:38-11:40, 11:42-11:47, 11:49:01-11:49:02, 11:51, 11:53-11:55, 11:57-11:66, 11:68-11:70, 11:72-11:82, 11:84:01-11:87, 11:89-11:103, 11:105-11:106, 11:108-11:129, 11:131-11:134, 13:01:01-13:01:08, 13:01:10-13:02:07, 13:04-13:06, 13:09-13:11:02, 13:14:01-13:16, 13:18, 13:20-13:25, 13:27-13:31, 13:34, 13:39, 13:41-13:46, 13:50:01-13:52, 13:54, 13:56-13:57, 13:59, 13:61:01-13:64, 13:66:01-13:66:02, 13:68-13:69, 13:71, 13:73-13:75, 13:77-13:79, 13:82-13:83, 13:86-13:87, 13:91-13:93, 13:96:01-13:100, 13:102, 13:104-13:107, 13:109-13:114, 13:117, 13:119, 13:121, 13:123-13:132, 13:136-13:143

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24 ^{5,14}	75 bp, 125 bp, 165 bp	430 bp	*14:26, 14:36, 14:41, 14:77, 14:90, 14:110	*03:18, 03:43, 03:71, 11:76, 11:114, 13:34, 13:64, 13:92, 13:136, DRB3*01:14
25 ^{5,15}	120 bp, 210 bp, 250 bp	430 bp	*14:07:01-14:07:02, 14:22, 14:25, 14:44:01-14:44:03, 14:49, 14:53, 14:56, 14:68-14:69, 14:93, 14:119	*01:14, 03:35, 04:62, 04:69, 08:08, 08:15, 13:45, DRB3*02:16
26 ⁸	250 bp	515 bp	*14:01:01-14:01:03	
27	220 bp	515 bp	*14:46	
28 ⁶	225 bp	430 bp	*14:50	*12:22
29 ^{5,16}	125 bp, 175 bp, 220 bp	515 bp	*14:48, 14:60, 14:97, 14:104, 14:111	*03:14-03:15, 03:26, 03:33, 03:38, 03:44, 03:79, 11:44, 11:49:01-11:50, 11:85, 11:105, 11:127, 13:31, 13:46, 13:54, 13:77, 13:100, 13:106, DRB3*01:14
30	190 bp	430 bp	*14:06:01-14:06:02, 14:12:01-14:12:02, 14:17-14:18, 14:21, 14:29, 14:33, 14:52, 14:59, 14:64, 14:78, 14:80-14:81, 14:83, 14:95, 14:106, 14:108, 14:121	*03:01:01:01-03:01:20, 03:03, 03:06-03:08, 03:10-03:13:02, 03:15-03:16, 03:18-03:20, 03:22-03:24, 03:26, 03:28, 03:32-03:34, 03:36-03:37, 03:39, 03:42, 03:45-03:48, 03:50-03:51, 03:54-03:56, 03:58-03:62, 03:64-03:73, 03:76-03:84, 03:86, 11:16, 11:40, 11:58:01, 11:59, 11:83, 11:113, 11:115, 13:01:01-13:01:13, 13:06, 13:09-13:10, 13:15, 13:18, 13:20, 13:27-13:28, 13:32, 13:35, 13:40, 13:42-13:43, 13:51, 13:53, 13:59, 13:61:01-13:61:02, 13:69, 13:71, 13:77-13:80, 13:87, 13:91-13:93, 13:98, 13:102, 13:105, 13:110-13:114, 13:117, 13:121, 13:125, 13:127, 13:129-13:131, 13:137N-13:138, 13:141, 15:32
31 ⁵	80 bp	515 bp	*14:35, 14:53, 14:72, 14:128	*03:10, 11:31, 11:96, 13:43, 13:45
32 ^{5,17}	100 bp, 145 bp	430 bp	*14:13, 14:19, 14:21, 14:63, 14:78, 14:85, 14:109	*03:12, 03:76, 13:10, 13:32, 13:65, 13:85, 13:93, 13:120, 13:139
33	175 bp	430 bp	*14:01:01-14:01:03, 14:07:01-14:08, 14:16, 14:22, 14:25-14:26, 14:32:01-14:32:02, 14:34-14:35, 14:38-14:39,	*03:10, 13:43, 13:45

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			14:49, 14:53-14:55, 14:58, 14:60, 14:62, 14:69-14:70, 14:74-14:75, 14:82, 14:86- 14:88, 14:90, 14:92N, 14:97, 14:99, 14:104-14:105, 14:110-14:114, 14:117- 14:119, 14:122, 14:124- 14:125, 14:128-14:129, 14:131	
34	205 bp	515 bp	*14:04, 14:11, 14:28, 14:31, 14:50, 14:68, 14:71, 14:93, 14:120, 14:126	
35¹⁸	250 bp, 280 bp	430 bp	*14:04, 14:11, 14:15, 14:28, 14:31, 14:50, 14:52, 14:71, 14:73, 14:76, 14:79, 14:107, 14:113, 14:120, 14:126	*04:85, 08:04:01, 08:04:04- 08:04:07, 08:06, 08:10, 08:12, 08:22, 08:28, 08:31, 11:67, 12:01:01-12:15, 12:17-12:21, 12:23-12:37, 13:17, 13:116
36	130 bp	515 bp	*14:63, 14:67, 14:78	*11:16, 11:20, 13:01:01-13:01:06, 13:01:08-13:02:07, 13:06, 13:10, 13:15-13:16, 13:27-13:28, 13:31- 13:32, 13:34-13:36, 13:39-13:41, 13:51, 13:53, 13:59, 13:61:01- 13:61:02, 13:65, 13:67, 13:69, 13:73, 13:77, 13:79-13:80, 13:85, 13:87, 13:91-13:93, 13:96:01- 13:96:02, 13:98-13:99, 13:102- 13:105, 13:109-13:110, 13:112- 13:113N, 13:117, 13:120-13:121, 13:123-13:128, 13:130-13:131, 13:137N-13:139, 13:141-13:143
37	175 bp	430 bp		*03:08, 03:65, 11:01:01-11:04:10, 11:06:01-11:21, 11:23-11:29, 11:31-11:66, 11:68-11:70, 11:72- 11:103, 11:105-11:129, 11:131- 11:134
38¹⁹	165 bp, 215 bp	515 bp	*14:05:01, 14:05:03-14:05:04, 14:37, 14:43-14:45, 14:56, 14:91, 14:96, 14:100, 14:103, 14:127	*03:35, 13:72
39^{5,20}	120 bp, 155 bp	430 bp	*14:18, 14:33, 14:48, 14:51, 14:59, 14:64, 14:95, 14:106, 14:108-14:109, 14:115	*03:11:01, 03:13:01-03:13:02, 03:38, 03:58, 03:65, 03:79, 13:39, 13:77-13:79, DRB3*01:08
40^{8,21}	215 bp, 250 bp	430 bp	*14:71, 14:107	

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41 ^{5,22}	115 bp, 165 bp, 245 bp	430 bp	*14:75, 14:90-14:91, 14:94, 14:97, 14:103	*03:04:01-03:04:02, 03:26, 03:33, 03:44, 11:29, 11:44, 11:47, 11:49:01-11:50, 11:63, 11:85, 11:127, 13:60, 13:84, 13:106
42 ²³	170 bp, 225 bp	515 bp	*14:11, 14:76, 14:79, 14:93	*08:31, 08:41, 11:67, 12:04
43 ^{5,8,24}	95 bp, 200 bp	430 bp	*14:82, 14:95, 14:101	*03:01:17
44 ²⁵	215 bp, 280 bp	515 bp	*14:70, 14:83, 14:113	*04:85, 15:03:01:01-15:03:02, 15:23, 15:54, 15:57
45 ^{5,8}	125 bp	515 bp	*14:59, 14:86, 14:96	*12:34
46 ^{5,8,26}	105 bp, 165 bp, 220 bp	515 bp	*14:87-14:89, 14:92N	
47 ^{5,7}	60 bp	430 bp	*14:63, 14:67, 14:78	*04:12, 04:18, 04:86, 08:03:02- 08:03:03, 08:10, 08:12, 08:14- 08:15, 08:19, 08:23, 08:27, 08:30:01-08:30:03, 08:32-08:38, 08:45-08:46, 08:49, 11:45, 11:119, 13:13, 15:21
48 ^{5,27}	65 bp, 190 bp, 225 bp	430 bp	*14:45, 14:98, 14:127	*03:35, 11:27:01, 11:84:01, 11:124, 12:22, 13:33:02- 13:33:03, 13:61:01, 13:96:02

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 DRB1*14 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 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DRB1*14 subtyping.

In addition, wells number 6, 12, 14, 21, 26, 27, 29, 31, 34, 36, 38, 42 and 44 to 46 contain the primer pair giving rise to the longer, 515 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 DRB1 alleles 1st and/or 3rd 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

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allelic groups and that unknown sequences of codons 87 to 92 are identical with the DRB1*01:01 consensus sequence.

⁴Due to the sharing of sequence motifs within the DR52 group of DRB1 alleles, non-DRB1*14 alleles will be amplified by primer mixes 1 to 25, 28 to 33, 35 to 39, 41 to 45, 47 and 48. In addition, the DRB3*01:08 allele will be amplified by primer mix 39, the DRB3*01:14 allele will be amplified by primer mixes 5, 18, 22, 24 and 29, and the DRB3*02:16 allele will be amplified by primer mix 25.

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

⁶Primer mixes 11, 23 and 28 may have tendencies of unspecific amplifications.

⁷Primer mixes 13, 16, 18 and 47 may give rise to a lower yield of HLA-specific PCR product than the other DRB1*14 primer mixes.

⁸Primer mixes 2, 16, 26, 40, 43, 45 and 46 have a tendency of giving rise to primer oligomer formation.

⁹Primer mix 9: Specific PCR fragment of 130 bp in the DRB1*14:62, 14:65 and 14:78 and in the DRB1*03:12, 04:10:01-04:12, 04:67, 04:91, 04:126, 08:06, 08:10, 08:12, 08:22, 13:04, 13:32, 13:48, 13:58, 13:75, 13:81, 13:89, 13:93-13:94, 13:108 and 15:12 alleles. Specific PCR fragment of 250 bp in the DRB1*14:05:01-14:05:04, 14:37, 14:43, 14:45, 14:56, 14:84, 14:91, 14:96, 14:100, 14:103, 14:127 and 14:130 and in the DRB1*13:72 alleles.

¹⁰Primer mix 14: Specific PCR fragment of 60 bp in the DRB1*14:22, 14:25, 14:53, 14:73, 14:105 and 14:128 and in the DRB1*08:08 alleles. Specific PCR fragment of 130 bp in the DRB1*14:27 and in the DRB1*11:09, 11:28:01-11:28:02, 11:58:01-11:58:02, 11:83, 11:87, 11:113, 11:115, 13:05:01-13:05:02, 13:18, 13:26:01-13:26:02, 13:42, 13:50:01-13:50:02, 13:136 and 16:08 alleles.

¹¹Primer mix 20: Specific PCR fragment of 110 bp in the DRB1*14:25, 14:53, 14:58, 14:69 and 14:128 and in the DRB1*13:45 alleles. Specific PCR fragment of 160 bp in the DRB1*14:04, 14:28, 14:31, 14:50, 14:68, 14:71, 14:73, 14:76, 14:79, 14:93, 14:102, 14:107, 14:116 and 14:120 and the DRB1*08:20, 11:23, 11:25, 11:45, 11:55, 11:64, 11:119, 13:13, 13:47 and 13:55 alleles. Specific PCR fragment of 215 bp in the DRB1*14:15 and the DRB1*08:01:02, 08:09, 08:21, 08:27, 08:32, 08:35, 08:36:02 and 08:38 alleles. Specific PCR fragments of 160 and 215 bp in the DRB1*08:01:01, *08:01:03-08:04:07, 08:06-08:07, 08:10-08:17, 08:19, 08:22-08:23, 08:26, 08:28, 08:30:01-08:30:03, 08:33-08:34, 08:36:01, 08:37, 08:39, 08:42, 08:44-08:46, 08:48-08:49 and 11:67 alleles. Specific PCR fragments of 110, 160 and 215 bp in the DRB1*08:08 allele. Not all specific PCR fragments may be obtained in alleles being amplified by more than one primer pair.

¹²Primer mix 21: Specific PCR fragment of 170 bp in DRB1*14:13, 14:63, 14:65, 14:78 and 14:85 and in the DRB1*03:12, 13:03:01-13:04, 13:12:01-13:13, 13:21:01-13:21:02, 13:30, 13:32-13:33:03, 13:38, 13:48-13:49, 13:55, 13:58, 13:65-13:66:02, 13:75, 13:81, 13:88-13:90, 13:93-13:95, 13:101, 13:108, 13:115, 13:118, 13:120, 13:122, 13:133-13:134 and 13:139 alleles. Specific PCR fragment of 215 bp in the DRB1*14:24 and 14:37 and the DRB1*11:69, 11:82, 13:09 and 13:129 alleles.

¹³Primer mix 23: Specific PCR fragment of 145 bp in DRB1*14:17, 14:21, 14:30, 14:33, 14:35, 14:42, 14:53, 14:64-14:65, 14:72, 14:95 and 14:128 and the DRB1*03:01:01:01-03:01:20, 03:04:01-03:05:03, 03:07-03:15, 03:18-03:25, 03:28-03:30, 03:32-03:34, 03:36-03:37, 03:39-03:40, 03:43-03:52, 03:54-03:59, 03:61-03:68N, 03:70-03:73, 03:76-03:79, 03:81, 03:83-03:84, 03:86, 11:01:01-11:01:06, 11:01:08-11:04:10, 11:06:01-11:16, 11:18-11:21, 11:23-11:29, 11:31-11:36, 11:38-11:40, 11:42-11:47, 11:49:01-11:49:02, 11:51, 11:53-11:55, 11:57-11:66, 11:68-11:70, 11:72-11:82, 11:84:01-11:87, 11:89-11:103, 11:105-11:106, 11:108-11:129, 11:131-11:134, 13:01:01-13:01:08, 13:01:10-13:02:07, 13:04-13:06, 13:09-13:11:02, 13:14:01-13:16, 13:18, 13:20-13:25, 13:27-13:31, 13:34, 13:39, 13:41-13:46, 13:50:01-13:52, 13:54, 13:56-13:57, 13:59, 13:61:01-13:64, 13:66:01-13:66:02, 13:68-13:69, 13:71, 13:73-13:75, 13:77-13:79, 13:82-13:83, 13:86-13:87, 13:91-13:93, 13:96:01-13:100, 13:102, 13:104-13:107, 13:109-13:114, 13:117, 13:119, 13:121, 13:123-13:132 and 13:136-13:143 alleles. Specific PCR fragment of 165 bp in the DRB1*14:88 allele.

¹⁴Primer mix 24: Specific PCR fragment of 75 bp in the DRB1*14:26 and the DRB1*13:92 alleles. Specific PCR fragment of 125 bp in the DRB1*14:36, 14:41, 14:77 and 14:110 and the DRB1*03:18, 03:43, 03:71, 11:76, 11:114, 13:34, 13:64 and 13:136 and in the DRB3*01:14 alleles. Specific PCR fragment of 165 bp in the DRB1*14:90 allele.

¹⁵Primer mix 25: Specific PCR fragment of 120 bp in the DRB1*14:07:01-14:07:02, 14:22, 14:25, 14:49, 14:53, 14:68-14:69, 14:93, 14:119, 01:14, 04:62, 04:69, 08:08, 08:15, 13:45, DRB3*02:16 alleles. Specific PCR fragment of 210 bp in the DRB1*14:56 allele. Specific PCR fragment of 250 bp in the DRB1*14:44:01-14:44:03 and the DRB1*03:35 alleles.

¹⁶Primer mix 29: Specific PCR fragment of 125 bp in the DRB1*14:60 and 14:97 and the DRB1*03:26, 03:33, 03:44, 11:44, 11:49:01-11:50, 11:85, 11:127, 13:106 alleles. Specific PCR fragment of 175 bp in the DRB1*14:48 and the DRB1*03:38, 03:79, 13:31, 13:46, 13:54, 13:77, 13:100, DRB3*01:14 alleles. Specific PCR fragment of 220 bp in the DRB1*14:104 and 14:111 and the DRB1*03:14-03:15, 11:105, alleles.

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

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¹⁷Primer mix 32: Specific PCR fragment of 100 bp in the DRB1*14:13, 14:63, 14:78 and 14:85 and in the DRB1*03:12, 13:32, 13:65, 13:93 and 13:139 alleles. Specific PCR fragment of 145 bp in the DRB1*14:19, 14:21 and 14:109 and in the DRB1*03:76, 13:10 and 13:85 alleles. Specific PCR fragment of 100 and 145 bp in the DRB1*13:120 allele.

¹⁸Primer mix 35: Specific PCR fragment of 250 bp in the DRB1*14:04, 14:11, 14:15, 14:28, 14:31, 14:50, 14:52, 14:71, 14:73, 14:76, 14:79, 14:107, 14:120 and 14:126 and the DRB1*08:04:01, 08:04:04-08:04:07, 08:06, 08:10, 08:12, 08:22, 08:28, 08:31, 11:67, 12:01:01-12:15, 12:17-12:21, 12:23-12:37, 13:17 and 13:116 alleles. Specific PCR fragment of 280 bp in the DRB1*14:113 and the DRB1*04:85 alleles.

¹⁹Primer mix 38: Specific PCR fragment of 165 bp in the DRB1*14:05:01, 14:05:03-14:05:04, 14:43-14:45, 14:56, 14:91, 14:96, 14:103 and 14:127 and the DRB1*03:35 alleles. Specific PCR fragment of 165 and 215 bp in the DRB1*14:37 and 14:100 and the DRB1*13:72 alleles.

²⁰Primer mix 39: Specific PCR fragment of 120 bp in the DRB1*14:48, 14:108, 14:109 and 14:115 and in the DRB1*03:13:01-03:13:02, 03:38, 03:79, 13:39, 03:58, 03:65 and 13:77-13:79 and the DRB3*01:08 alleles. Specific PCR fragment of 155 bp in the DRB1*14:18, 14:33, 14:51, 14:59, 14:95 and 14:106 and the DRB1*03:11:01 alleles. Specific PCR fragment of 120 and 155 bp in the DRB1*14:64 allele.

²¹Primer mix 40: Specific PCR fragment of 215 bp in the DRB1*14:107 allele. Specific PCR fragment of 250 bp in the DRB1*14:71 allele.

²²Primer mix 41: Specific PCR fragment of 115 bp in the DRB1*14:91, 14:94 and 14:97 and the DRB1*03:04:01-03:04:02, 03:26, 03:33, 03:44, 11:29, 11:44, 11:47, 11:49:01-11:50, 11:63, 11:85, 11:127, 13:60, 13:84 and 13:106 alleles. Specific PCR fragment of 165 bp in the DRB1*14:90 allele. Specific PCR fragment of 245 bp in the DRB1*14:75 and 14:103 alleles.

²³Primer mix 42: Specific PCR fragment of 170 bp in the DRB1*14:11 and the DRB1*08:31, 08:41, 11:67 and 12:04 alleles. Specific PCR fragment of 225 bp in the DRB1*14:76, 14:79 and 14:93 alleles.

²⁴Primer mix 43: Specific PCR fragment of 95 bp in the DRB1*14:101 allele. Specific PCR fragment of 200 bp in the DRB1*14:76, 14:79 and 14:93 alleles.

²⁵Primer mix 44: Specific PCR fragment of 215 bp in the DRB1*14:70 and 14:83 and the DRB1*15:03:01:01-15:03:02, 15:23, 15:54 and 15:57 alleles. Specific PCR fragment of 280 bp in the DRB1*14:113 and the DRB1*04:85 alleles.

²⁶Primer mix 46: Specific PCR fragment of 105 bp in the DRB1*14:92N allele. Specific PCR fragment of 165 bp in the DRB1*14:88 allele. Specific PCR fragment of 220 bp in the DRB1*14:87 and 14:89 alleles.

²⁷Primer mix 48: Specific PCR fragment of 65 bp in the DRB1*14:98 and the DRB1*11:27:01, 11:84:01, 11:124, 12:22, 13:33:02-13:33:03, 13:61:01 and 13:96:02 alleles. Specific PCR fragment of 190 bp in the DRB1*14:45 allele. Specific PCR fragment of 225 bp in the DRB1*14:127 and the DRB1*03:35 alleles.

‘w’, might be weakly amplified.

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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INTERPRETATION TABLE																								
DRB1*14 SSP subtyping																								
Amplification patterns of the DRB1*14:01 to DRB1*14:131 alleles																								
	Well ⁹																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75
PCR product(s)									250					130						160	215		165	125
Length of int. pos. control ¹	515	430	430	430	430	515	430	430	430	430	430	515	430	515	430	430	430	430	430	430	215	160	110	
5'-primer(s) ²	5'-gTC 3' 13(125)	5'-gTC 3' 13(125)	5'-AgA 3' 36(196)	5'-gTC 3' 13(125)	5'-gTC 3' 13(125)	5'-gTC 3' 13(125)	5'-gTC 3' 13(125)	5'-ggg 3' 13(125)	5'-CAA 3' 16(135)	5'-ACC 3' 10(118)	5'-AGC 3' 59(265)	5'-gTC 3' 13(125)	5'-CAG 3' 34(189)	5'-AgA 3' 36(196)	5'-AgA 3' 36(196)	5'-gAT 3' 57(258)	5'-gTC 3' 13(125)	5'-gTC 3' 13(125)	5'-gTT 3' 37(197)	5'-gTT 3' 15(133)	5'-gTC 3' 13(125)	5'-gTC 3' 13(125)	5'-gTC 3' 13(125)	5'-gTC 3' 13(125)
3'-primer(s) ³	5'-TCC 3' 70(296)	5'-CAG 3' 57(257)	5'-CTg 3' 69(295)	5'-CTC 3' 28(171)	5'-CAC 3' 86(344)	5'-CCA 3' 86(344)	5'-gAT 3' 66(286)	5'-CAG 3' 57(257)	5'-CCA 3' 86(344)	5'-CAG 3' 57(257)	5'-CgC 3' 73(307)	5'-CCT 3' 74(308)	5'-gTg 3' 59(265)	5'-gAA 3' 66(286)	5'-CAG 3' 85(341)	5'-CAA 3' 78(321)	5'-CTT 3' 70(298)	5'-CTg 3' 28(171)	5'-CTC 3' 70(298)	5'-CAG 3' 73(307)	5'-CAG 3' 73(307)	5'-gCT 3' 55(251)	5'-gCT 3' 55(251)	5'-gCT 3' 55(251)
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24



101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75		
PCR product(s)									250					130						215	160	110	215		165	125
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
DRB1 allele ^{4,5}																										
*14:01:01-14:01:03	1	2				6						12	13					18					22			
*14:02, 14:47			3	4	5																		22			
*14:03:01-14:03:02				4	5		7																22			
*14:04, 14:120								8					13							20						
*14:05:01, 14:05:04	1					6			9			12				16		18					22			
*14:05:02	1					6			9			12				16		18					22			
*14:05:03	1					6			9			12						18					22			
*14:06:01-14:06:02			3	4		6																	22			
*14:07:01-14:07:02	1	2			5							12	13					18					22			
*14:08	1	2				6						12	13			16		18					22			
*14:09			3		5													18					22			
*14:10									10				13													
*14:11																16										
*14:12:01-14:12:02				4		6	7																22			
*14:13			3	4	5																21	22				
*14:14	1				5							12				16		18				22				
*14:15																			19	20						
*14:16		2				6				11		13						18	19				22			
*14:17			3			6												18					23			
*14:18	1			4		6						12				16							22			
*14:19			3	4	5													17					22			
*14:20				4		6																	22			
*14:21, 03:76 ⁶			3			6												17	18				23			
*14:22		2			5					11		13	14					18					22			
*14:23:01-14:23:03	1					6						12				16		18					22			
*14:24				4	5																21	22				
*14:25		2			5					11			14					18		20			22			
*14:26, 14:110 ⁸	1	2				6						12	13					18				22	24			
*14:27				4	5		7							14									22			
*14:28								8					13		15						20					
*14:29			3	4		6									15								22			
*14:30			3		5													18					23			
*14:31								8		11		13								20						
*14:32:01-14:32:02	1	2				6					11		13					18					22			
*14:33			3			6						12						18					23			
*14:34	1	2				6					11		13			16		18					22			
*14:35	1	2				6						12	13					18					23			
*14:36	1				5							12				16		18					22	24		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75		
PCR product(s)									250					130						215	160	110	215	145	165	125
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
*14:37					6				9								18			21	22					
*14:38, 14:54:01- 14:54:02, 14:112, 14:114, 14:117-14:118, 14:125, 14:129, 14:131	1	2			6							12	13				18				22					
*14:39	1	2			6				10		12	13					18				22					
*14:40				4	5		7											19			22					
*14:41				4	5																22		24			
*14:42	1				5							12				16	18						23			
*14:43	1				6				9			12				16	17	18			22					
*14:44:01, 14:44:03	1				5							12				16	18				22					
*14:44:02	1				5							12					18				22					
*14:45	1				6	7			9			12				16	18				22					
*14:46			3																							
*14:48			3	4	5																22					
*14:49		2		4	5					11			13								22					
*14:50								8					13							20						
*14:51			3	4	5							12									22					
*14:52			3																							
*14:53		2			5					11			14				18	20					23			
*14:55	w	2			6	7							13				18	19			22					
*14:56	1				6				9			12				16	18				22					
*14:57									10									19								
*14:58	1	2			6							12					18	20			22					
*14:59	1				6							12				16	18				22					
*14:60	1	2			6							12	13				18				22					
*14:61								8					13													
*14:62	1	2			6				9			12	13				18				22					
*14:63				4	5		7														21	22				
*14:64	1				6							12				16	18						23			
*14:65	1				6				9								18				21	23				
*14:67				4	5		7														22					
*14:68								8					13								20					
*14:69		2			5						11						18	20			22					
*14:70	1	2			6							12	13								22					
*14:71								8					13								20					
*14:72	1	2			6							12	13			16	18						23			
*14:73								8					13	14							20					
*14:74		2			6						11		13				18				22					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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250	210	120	250	220	225	125	190	80	100	175	205	250	130	175	165	120	215	115	170	95	215	125	105	60	65	Length of spec. PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		
														38												*14:37
								33																		*14:38, 14:54:01-14:54:02, 14:112, 14:114, 14:117-14:118, 14:125, 14:129, 14:131
								33																		*14:39
																										*14:40
																										*14:41
																										*14:42
														38												*14:43
25														38												*14:44:01, 14:44:03
25														38												*14:44:02
														38									48			*14:45
		27																								*14:46
				29										39												*14:48
25								33																		*14:49
			28						34	35																*14:50
														39												*14:51
				30						35																*14:52
25						31		33																		*14:53
								33																		*14:55
25														38												*14:56
																										*14:57
								33																		*14:58
				30										39								45				*14:59
				29				33																		*14:60
																										*14:61
								33																		*14:62
							32				36												47			*14:63
				30										39												*14:64
																										*14:65
												36											47			*14:67
25										34																*14:68
25								33																		*14:69
								33												44						*14:70
									34	35				40												*14:71
						31																				*14:72
										35																*14:73
								33																		*14:74
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75		
PCR product(s)									250					130						215	160	110	215	145	165	125
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
*14:75	1	2				6						12	13					18				22				
*14:76								8												20						
*14:77				4	5		7												19			22		24		
*14:78				4		6	7		9												21	22				
*14:79								8					13								20					
*14:80			3			6												18				22				
*14:81	1			4		6																22				
*14:82	1	2				6						12	13					18				22				
*14:83			3	4		6																22				
*14:84						6	7		9									18	19			22				
*14:85				4	5		7														21	22				
*14:86	1	2				6						12	13					18				22				
*14:87	1	2				6							13					18				22				
*14:88	1	2				6						12	13					18				22	23			
*14:89				4	5		7															22				
*14:90	1	2				6						12	13					18				22		24		
*14:91	1					6			9			12				16		18				22				
*14:92N	1	2				6						12	13					18				22				
*14:93								8					13								20					
*14:94				4	5																	22				
*14:95	1					6						12				16		18						23		
*14:96	1					6			9			12				16		18				22				
*14:97	1	2				6						12	13					18				22				
*14:98				4	5																	22				
*14:99	1	2				6						12	13		15			18				22				
*14:100	1					6			9							16		18				22				
*14:101	1	2				6						12						18				22				
*14:102					5		7														20	22				
*14:103	1					6			9			12						18				22				
*14:104, 14:111		2				6							13					18				22				
*14:105		2				6				11			13	14				18				22				
*14:106			3	4		6						12										22				
*14:107								8					13								20					
*14:108			3	4		6																22				
*14:109			3	4	5													17				22				
*14:113	1	2				6						12	13					18				22				
*14:115				4	5		7															22				
*14:116, 13:47 ⁷					5		7											18		20		22				
*14:119		2			5					11			13					18				22				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		

101.117-12/03 – including Taq pol., IFU-01
101.117-12u/03u – without Taq pol., IFU-02

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

Lot No.: **81R**

Lot-specific information

www.olerup-ssp.com

120		250	220	225	125	190	80	100	175	205	250	130	175	165	120	215	115	170	95	215	125	105	60	65	Length of spec. PCR product(s)	Well No.		
250	210			220	175		145			280				215	155	250	245	165	225	200	280	220	165	190				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48					
								33								41										*14:75		
										35							42										*14:76	
																											*14:77	
					30		32				36												47				*14:78	
										35							42										*14:79	
					30																						*14:80	
					30																						*14:81	
								33												43							*14:82	
					30																		44				*14:83	
																											*14:84	
							32																				*14:85	
								33															45				*14:86	
								33															46				*14:87	
								33															46				*14:88	
																							46				*14:89	
								33									41										*14:90	
																38	41										*14:91	
								33															46				*14:92N	
25									34												42						*14:93	
																	41										*14:94	
					30											39					43						*14:95	
															38							45					*14:96	
				29				33									41										*14:97	
																								48			*14:98	
								33																			*14:99	
															38												*14:100	
																					43						*14:101	
																											*14:102	
															38		41										*14:103	
				29				33																			*14:104, 14:111	
								33																			*14:105	
					30											39											*14:106	
										35						40											*14:107	
					30											39											*14:108	
								32								39											*14:109	
								33	35													44					*14:113	
															39												*14:115	
																											*14:116, 13:47 ⁷	
25								33																			*14:119	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48			Well No.		

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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

Lot No.: **81R**

Lot-specific information

www.olerup-ssp.com

Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75		
PCR product(s)									250					130						215	160	110	215		165	125
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
*14:121			3			6																22				
*14:122	1	2				6	7					12	13					18				22				
*14:123	1					6										16		18				22				
*14:124	1	2				6						12	13									22				
*14:126																16										
*14:127	1					6			9			12						18				22				
*14:128		2				6					11			14				18		20				23		
*14:130	1	2				6			9			12	13			16		18				22				
*01:02:01-01:02:05, 01:02:08, 01:23, 01:26, 01:34, 01:43-01:44, 01:46, 04:06:05																16										
*01:14											11															
*03:01:01-01-03:01:16, 03:01:19-03:01:20, 03:07, 03:19, 03:22-03:23, 03:28, 03:32, 03:34, 03:36- 03:37, 03:39, 03:45- 03:48, 03:50-03:51, 03:54- 03:56, 03:59, 03:61- 03:62, 03:64, 03:66- 03:68N, 03:70, 03:72- 03:73, 03:77-03:78, 03:83- 03:84, 03:86, 13:01:07, 13:20, 13:71, 13:111, 13:114						6												18					23			
*03:01:17						6										16		18						23		
*03:01:18						6																		23		
*03:02:01-03:02:02, 03:74				4	5																	22				
*03:03				4		6																22				
*03:04:01-03:04:02						6												18						23		
*03:05:01-03:05:03, 03:09, 03:40, 13:14:01- 13:14:03, 13:23:01- 13:23:02, 13:25, 13:29, 13:56, 13:62-13:63, 13:74, 13:82, 13:97:01- 13:97:02, 13:132, 13:140						5												18						23		
*03:06, 03:80						6												18				22				
*03:08, 11:40, 11:59						6												18						23		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

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

Lot No.: 81R

Lot-specific information

www.olerup-ssp.com

250	210	120	250	220	225	125	190	80	100	175	205	250	130	175	165	120	215	115	170	95	215	125	105	60	65	Length of spec. PCR product(s)	
						175			145			280			215	155	250	245	165	225	200	280	220	165		225	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.			
					30																						*14:121
								33																			*14:122
																											*14:123
																											*14:124
										34 35																	*14:126
												38													48		*14:127
						31		33																			*14:128
																											*14:130
																											*01:02:01-01:02:05, 01:02:08, 01:23, 01:26, 01:34, 01:43-01:44, 01:46, 04:06:05
25																											*01:14
																											*03:01:01:01-03:01:16, 03:01:19-03:01:20, 03:07, 03:19, 03:22-03:23, 03:28, 03:32, 03:34, 03:36- 03:37, 03:39, 03:45- 03:48, 03:50-03:51, 03:54- 03:56, 03:59, 03:61- 03:62, 03:64, 03:66- 03:68N, 03:70, 03:72- 03:73, 03:77-03:78, 03:83- 03:84, 03:86, 13:01:07, 13:20, 13:71, 13:111, 13:114
					30																						*03:01:17
					30																						*03:01:18
																											*03:02:01-03:02:02, 03:74
					30																						*03:03
																											*03:04:01-03:04:02
																											*03:05:01-03:05:03, 03:09, 03:40, 13:14:01- 13:14:03, 13:23:01- 13:23:02, 13:25, 13:29, 13:56, 13:62-13:63, 13:74, 13:82, 13:97:01- 13:97:02, 13:132, 13:140
					30																						*03:06, 03:80
					30							37															*03:08, 11:40, 11:59
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.			

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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

Lot No.: **81R**

Lot-specific information

www.olerup-ssp.com

Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75					
PCR product(s)									250					130						215	160	110	215	170	145	145	165	125	165
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
*03:10		2				6							13					18							23				
*03:11:01						6						12						18							23				
*03:12						6			9									18			21				23				
*03:13:01-03:13:02, 03:58, 13:78						6												18							23				
*03:14, 13:46, 13:100					5													18							23				
*03:15						6												18							23				
*03:16, 03:82						6												18											
*03:17					5							12						18				22							
*03:18, 03:71						6												18						23	24				
*03:20						6									15			18							23				
*03:21, 03:25, 03:30, 03:49, 03:52, 13:11:01- 13:11:02, 13:22, 13:24, 13:44, 13:52, 13:68						6												18							23				
*03:24						6						12						18							23				
*03:26						6												18					22						
*03:27				4	5							12											22						
*03:29				4	5																				23				
*03:31, 03:75, 13:70						6												18				22							
*03:33						6												18							23				
*03:35						5						12						18					22						
*03:38				4	5																		22						
*03:41, 13:07:01-13:07:02						5												18				22							
*03:42, 03:69, 15:32																													
*03:43						6												18							23	24			
*03:44, 13:106						6												18							23				
*03:53				4	5																								
*03:57, 03:63																		18							23				
*03:60						6																22							
*03:65						6												18							23				
*03:79						6												18							23				
*03:81					5	6						12						18							23				
*04:10:01-04:11:02, 04:67, 04:91, 04:126, 15:12									9																				
*04:12									9																				
*04:18, 04:86, 15:21																													
*04:62										10	11																		
*04:69										10																			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
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Lot No.: **81R**

Lot-specific information

www.olerup-ssp.com

250	210	120	250	220	225	125	190	80	100	175	205	250	130	175	165	120	215	115	170	95	215	125	105	60	65	Length of spec. PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		
					30	31		33																		*03:10
					30									39												*03:11:01
					30		32																			*03:12
					30									39												*03:13:01-03:13:02, 03:58, 13:78
				29																						*03:14, 13:46, 13:100
				29	30																					*03:15
					30																					*03:16, 03:82
																										*03:17
					30																					*03:18, 03:71
					30																					*03:20
																										*03:21, 03:25, 03:30, 03:49, 03:52, 13:11:01- 13:11:02, 13:22, 13:24, 13:44, 13:52, 13:68
					30																					*03:24
				29	30											41										*03:26
																										*03:27
																										*03:29
																										*03:31, 03:75, 13:70
				29	30											41										*03:33
25														38										48		*03:35
				29											39											*03:38
																										*03:41, 13:07:01-13:07:02
					30																					*03:42, 03:69, 15:32
																										*03:43
				29												41										*03:44, 13:106
																										*03:53
																										*03:57, 03:63
					30																					*03:60
					30							37		39												*03:65
				29	30										39											*03:79
					30																					*03:81
																										*04:10:01-04:11:02, 04:67, 04:91, 04:126, 15:12
																							47			*04:12
																							47			*04:18, 04:86, 15:21
25																										*04:62
25																										*04:69
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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Lot No.: **81R**

Lot-specific information

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75
PCR product(s)									250					130						160	215		165	125
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*04:85																								
*08:01:01-08:02:03, 08:04:02-08:04:03, 08:07, 08:13, 08:16-08:17, 08:26, 08:39, 08:42, 08:44, 08:48																				20				
*08:02:04																16				20				
*08:03:02-08:03:03, 08:14, 08:19, 08:23, 08:27, 08:30:01-08:30:03, 08:32-08:34, 08:36:01- 08:38, 08:45-08:46, 08:49																				20				
*08:04:01, 08:04:04- 08:04:07, 08:28																				20				
*08:06, 08:22									9											20				
*08:08								8						14						20				
*08:09, 08:21																			19	20				
*08:10, 08:12									9											20				
*08:11								w												20				
*08:15																				20				
*08:20						6	7												18	20		22		
*08:31																								
*08:35																				19	20			
*08:41																								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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Lot No.: **81R**

Lot-specific information

www.olerup-ssp.com

250	210	120	250	220	225	125	190	80	100	175	205	250	130	175	165	120	215	115	170	95	215	125	105	60	65	Length of spec. PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		
										35									44							*04:85
																										*08:01:01-08:02:03, 08:04:02-08:04:03, 08:07, 08:13, 08:16-08:17, 08:26, 08:39, 08:42, 08:44, 08:48
																										*08:02:04
																							47			*08:03:02-08:03:03, 08:14, 08:19, 08:23, 08:27, 08:30:01-08:30:03, 08:32-08:34, 08:36:01- 08:38, 08:45-08:46, 08:49
										35																*08:04:01, 08:04:04- 08:04:07, 08:28
										35																*08:06, 08:22
25																										*08:08
																										*08:09, 08:21
										35													47			*08:10, 08:12
																										*08:11
25																							47			*08:15
																										*08:20
										35								42								*08:31
																							47			*08:35
																	42									*08:41
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **81R**

Lot-specific information

www.olerup-ssp.com

Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75		
PCR product(s)									250					130						215	160	110	215		165	125
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
*11:01:01-11:01:04, 11:01:06, 11:01:08- 11:01:09, 11:01:11- 11:01:17, 11:08:01- 11:08:02, 11:10:01- 11:12:02, 11:14:01-11:15, 11:19:01-11:19:03, 11:24, 11:26, 11:27:02-11:27:03, 11:32-11:33, 11:39, 11:51, 11:61-11:62, 11:66, 11:68, 11:74:01- 11:75, 11:80-11:81, 11:90- 11:91, 11:94-11:95, 11:97, 11:99-11:101, 11:103, 11:106, 11:108- 11:112, 11:117, 11:120, 11:122, 11:125-11:126, 11:128, 11:133-11:134					5													18					23			
*11:01:05, 11:01:10					5											16		18					23			
*11:01:07					5													18								
*11:02:01-11:04:02, 11:04:04-11:04:10, 11:06:01, 11:06:03-11:07, 11:18, 11:21, 11:34- 11:36, 11:38, 11:42- 11:43, 11:46:01-11:46:02, 11:57, 11:60, 11:65:01- 11:65:02, 11:70, 11:77- 11:78, 11:84:02, 11:98, 11:102:01-11:102:02, 11:116, 11:118, 11:123, 11:129						6												18					23			
*11:04:03, 11:06:02						6										16		18					23			
*11:09, 11:28:01- 11:28:02, 11:87					5									14				18					23			
*11:13:01-11:13:02	1					6										16		18					23			
*11:16						6												18					23			
*11:17	1					6						12				16		18				22				
*11:20					5													18					23			
*11:23, 11:64					5		7											18	20				23			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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Lot No.: **81R**

Lot-specific information

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120				125				130				135				140				145				150				155				160				165				170				175				180				185				190				195				200				205				210				215				220				225				230				235				240				245				250				255				260				265				270				275				280				285				290				295				300				305				310				315				320				325				330				335				340				345				350				355				360				365				370				375				380				385				390				395				400				405				410				415				420				425				430				435				440				445				450				455				460				465				470				475				480				485				490				495				500				505				510				515				520				525				530				535				540				545				550				555				560				565				570				575				580				585				590				595				600				605				610				615				620				625				630				635				640				645				650				655				660				665				670				675				680				685				690				695				700				705				710				715				720				725				730				735				740				745				750				755				760				765				770				775				780				785				790				795				800				805				810				815				820				825				830				835				840				845				850				855				860				865				870				875				880				885				890				895				900				905				910				915				920				925				930				935				940				945				950				955				960				965				970				975				980				985				990				995				1000			
Length of spec.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
PCR product(s)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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*11:01:01-11:01:04, 11:01:06, 11:01:08- 11:01:09, 11:01:11- 11:01:17, 11:08:01- 11:08:02, 11:10:01- 11:12:02, 11:14:01-11:15, 11:19:01-11:19:03, 11:24, 11:26, 11:27:02-11:27:03, 11:32-11:33, 11:39, 11:51, 11:61-11:62, 11:66, 11:68, 11:74:01- 11:75, 11:80-11:81, 11:90- 11:91, 11:94-11:95, 11:97, 11:99-11:101, 11:103, 11:106, 11:108- 11:112, 11:117, 11:120, 11:122, 11:125-11:126, 11:128, 11:133-11:134																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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*11:02:01-11:04:02, 11:04:04-11:04:10, 11:06:01, 11:06:03-11:07, 11:18, 11:21, 11:34- 11:36, 11:38, 11:42- 11:43, 11:46:01-11:46:02, 11:57, 11:60, 11:65:01- 11:65:02, 11:70, 11:77- 11:78, 11:84:02, 11:98, 11:102:01-11:102:02, 11:116, 11:118, 11:123, 11:129																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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

Lot No.: **81R**

Lot-specific information

www.olerup-ssp.com

Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75					
PCR product(s)									250					130						215	160	110	215	170	145	145	165	125	165
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
*11:25, 11:55						6	7											18		20				23					
*11:27:01					5													18						23					
*11:29					5													18						23					
*11:31, 11:96		2			5													18						23					
*11:37:01-11:37:02, 11:107					5													18				22							
*11:41, 11:48, 11:56						6												18				22							
*11:44, 11:85, 11:127						6												18						23					
*11:45					5		7											18		20				23					
*11:47, 11:63						6												18						23					
*11:49:01-11:49:02					5													18						23					
*11:50						6												18				22							
*11:52	1	2				6						12	13			16		18					22						
*11:53					5							12						18						23					
*11:54:01						6						12				16		18						23					
*11:54:02						6						12						18						23					
*11:58:01, 11:113, 11:115						6								14				18						23					
*11:58:02						6								14				18						23					
*11:67																				20									
*11:69, 11:82					5													18			21			23					
*11:72, 11:121					5																			23					
*11:73, 11:79, 11:93					5												17	18						23					
*11:76						6												18						23	24				
*11:83						6								14				18				22							
*11:84:01, 11:124						6												18						23					
*11:86																		18						23					
*11:88						6												18											
*11:89	1					6						12						18						23					
*11:92						6																		23					
*11:105					5													18						23					
*11:114					5													18						23	24				
*11:119						6	7											18		20				23					
*11:131-11:132						6											17	18						23					
*12:01:01-12:03:03, 12:06- 12:08, 12:10-12:13, 12:17- 12:21, 12:23-12:33, 12:35- 12:37, 13:17, 13:116																													
*12:04																				16									
*12:05, 12:14-12:15																				15									
*12:09																				16									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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

Lot No.: **81R**

Lot-specific information

www.olerup-ssp.com

250	210	120	250	220	225	125	190	80	100	175	205	250	130	175	165	120	215	115	170	95	215	125	105	60	65	Length of spec. PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		
														37												*11:25, 11:55
														37										48		*11:27:01
														37			41									*11:29
						31								37												*11:31, 11:96
														37												*11:37:01-11:37:02, 11:107
														37												*11:41, 11:48, 11:56
				29										37			41									*11:44, 11:85, 11:127
														37									47			*11:45
														37			41									*11:47, 11:63
				29										37			41									*11:49:01-11:49:02
				29										37			41									*11:50
														37												*11:52
														37												*11:53
														37												*11:54:01
														37												*11:54:02
					30									37												*11:58:01, 11:113, 11:115
														37												*11:58:02
										35							42									*11:67
														37												*11:69, 11:82
														37												*11:72, 11:121
														37												*11:73, 11:79, 11:93
														37												*11:76
						30								37												*11:83
														37										48		*11:84:01, 11:124
														37												*11:86
														37												*11:88
														37												*11:89
														37												*11:92
				29										37												*11:105
														37												*11:114
														37										47		*11:119
														37												*11:131-11:132
																										*12:01:01-12:03:03, 12:06- 12:08, 12:10-12:13, 12:17- 12:21, 12:23-12:33, 12:35- 12:37, 13:17, 13:116
																	42									*12:04
																										*12:05, 12:14-12:15
																										*12:09
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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

Lot No.: **81R**

Lot-specific information

www.olerup-ssp.com

Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75		
PCR product(s)									250					130						215	160	110	215		165	125
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
*12:22																										
*12:34																										
*13:01:01-13:01:02, 13:01:04-13:01:06, 13:01:08, 13:01:10- 13:01:13, 13:06, 13:27- 13:28, 13:51, 13:59, 13:61:02, 13:69, 13:87, 13:91, 13:98, 13:102, 13:105, 13:110, 13:112- 13:113N, 13:117, 13:121, 13:125, 13:127, 13:130- 13:131, 13:137N-13:138, 13:141					6												18						23			
*13:01:03					6											16	18						23			
*13:01:09, 13:35, 13:80					6												18									
*13:02:01-13:02:03, 13:02:05-13:02:07, 13:41, 13:73, 13:96:01, 13:99, 13:123-13:124, 13:126, 13:128, 13:142N-13:143					5												18						23			
*13:02:04, 13:16, 13:109																	18						23			
*13:03:01-13:03:06, 13:33:01, 13:88, 13:90, 13:95, 13:115, 13:122, 13:133					5												17	18			21	22				
*13:04, 13:75					6				9								18				21		23			
*13:05:01-13:05:02, 13:50:01-13:50:02					5									14			18						23			
*13:08					6												18	19				22				
*13:09, 13:129					6												18				21		23			
*13:10			3		6												17	18					23			
*13:12:01-13:12:03, 13:38, 13:49, 13:118, 13:134					5												18				21	22				
*13:13					5	7											18	20		21	22					
*13:15				4	6																			23		
*13:18					6	7							14				18							23		
*13:19				4	6													19				22				
*13:21:01-13:21:02, 13:30					5												18				21		23			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

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

Lot No.: **81R**

Lot-specific information

www.olerup-ssp.com

www.olerup-ssp.com																				Length of spec.								
																				PCR product(s)								
250	210	120	250	220	225	125	190	80	100	175	205	250	130	175	165	120	215	115	170	95	215	125	105	60	65	Well No.		
						220	175		145			280			215	155	250	245	165	225	200	280	220	165		225	48	
			28																									*12:22
												35											45					*12:34
																												*13:01:01-13:01:02, 13:01:04-13:01:06, 13:01:08, 13:01:10- 13:01:13, 13:06, 13:27- 13:28, 13:51, 13:59, 13:61:02, 13:69, 13:87, 13:91, 13:98, 13:102, 13:105, 13:110, 13:112- 13:113N, 13:117, 13:121, 13:125, 13:127, 13:130- 13:131, 13:137N-13:138, 13:141
						30							36															*13:01:03
						30							36															*13:01:09, 13:35, 13:80
													36															*13:02:01-13:02:03, 13:02:05-13:02:07, 13:41, 13:73, 13:96:01, 13:99, 13:123-13:124, 13:126, 13:128, 13:142N-13:143
													36															*13:02:04, 13:16, 13:109
																												*13:03:01-13:03:06, 13:33:01, 13:88, 13:90, 13:95, 13:115, 13:122, 13:133
																												*13:04, 13:75
																												*13:05:01-13:05:02, 13:50:01-13:50:02
																												*13:08
						30																						*13:09, 13:129
						30	32						36															*13:10
																												*13:12:01-13:12:03, 13:38, 13:49, 13:118, 13:134
																								47				*13:13
						30							36															*13:15
						30																						*13:18
																												*13:19
																												*13:21:01-13:21:02, 13:30
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48				Well No.	

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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Lot No.: **81R**

Lot-specific information

www.olerup-ssp.com

Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75	
PCR product(s)									250					130						215	160	110	215	165	125
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
*13:26:01-13:26:02				4	5									14								22			
*13:31					5													18					23		
*13:32						6			9									18			21	22			
*13:33:02-13:33:03					5												17	18			21	22			
*13:34					5													18					23	24	
*13:36					5													18				22			
*13:37					5												17	18				22			
*13:39					5													18					23		
*13:40						6												18				22			
*13:42						6								14				18					23		
*13:43		2				6				11			13					18					23		
*13:45		2			5					11								18		20			23		
*13:48, 13:58, 13:108						6			9									18			21	22			
*13:53				4		6																22			
*13:54						6												18					23		
*13:55					5		7											18		20	21	22			
*13:57				4		6													19				23		
*13:60					5													18				22			
*13:61:01						6												18					23		
*13:64						6												18	19				23	24	
*13:65					5													18			21	22			
*13:66:01-13:66:02					5												17	18			21		23		
*13:67, 13:103																									
*13:72						6			9									18	19			22			
*13:76						6					12					16		18	19			22			
*13:77						6												18					23		
*13:79						6												18					23		
*13:81, 13:89, 13:94						6			9								17	18			21	22			
*13:83						6												18	19				23		
*13:84						6												18				22			
*13:85			3	4	5												17					22			
*13:86					5																		23		
*13:92						6												18					23	24	
*13:93						6			9									18			21		23		
*13:96:02						5												18					23		
*13:101						5											17				21	22			
*13:104				4	5																		23		
*13:107						5												18	19				23		
*13:119						5		7										18					23		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

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Lot No.: **81R**

Lot-specific information

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Length of spec.	210	175	140	85	260	260	225	170	130	175	85	225	115	60	185	105	220	85	145	110	170	145	145	75		
PCR product(s)									250					130						215	160	110	215		165	125
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
*13:120			3		5												17	18			21	22				
*13:135					5													18	19			22				
*13:136					5									14				18					23	24		
*13:139					5													18			21		23			
*15:03:01:01-15:03:02, 15:23, 15:54, 15:57																										
*16:08														14												
<i>DRB3*01:08</i>																										
<i>DRB3*01:14</i>					5													18				22		24		
<i>DRB3*02:16</i>																										
DRB1 allele ^{4,5}																										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		

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 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DRB1*14 subtyping.

In addition, wells number 6, 12, 14, 21, 26, 27, 29, 31, 34, 36, 38, 42 and 44 to 46 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

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

³The codon, and in parenthesis the nucleotide, in the 2nd and 3rd exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Codon and nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

⁴DRB1*14 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.

⁵The DRB1*1466 allele has been renamed to DRB1*14:32:02

⁶The DRB1*14 primer set cannot separate the DRB1*14:21 and DRB1*03:76 alleles. These alleles can be distinguished by the DR low resolution and/or DRB1*03 kits.

⁷The DRB1*14 primer set cannot separate the DRB1*14:116 and the DRB1*13:47 alleles. These alleles can be distinguished by the DR low resolution and/or DRB1*13 kits.

⁸The DRB1*14:26 and DRB1*14:110 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 24.

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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Lot No.: **81R**

Lot-specific information

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120	250	220	225	125	190	80	100	175	205	250	130	175	165	120	215	115	170	95	215	125	105	60	65	Length of spec. PCR product(s)	
250	210			220	175		145			280			215	155	250	245	165	225	200	280	220	165	225	190	Well No.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
							32				36														*13:120
																									*13:135
																									*13:136
							32				36														*13:139
																			44						*15:03:01:01-15:03:02, 15:23, 15:54, 15:57
															39										*16:08
																									DRB3*01:08
							29																		DRB3*01:14
25																									DRB3*02:16
																									DRB1 allele ^{4,5}
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

⁹Primer mix 9: Specific PCR fragment of 130 bp in the DRB1*14:62, 14:65 and 14:78 and in the DRB1*03:12, 04:10:01-04:12, 04:67, 04:91, 04:126, 08:06, 08:10, 08:12, 08:22, 13:04, 13:32, 13:48, 13:58, 13:75, 13:81, 13:89, 13:93-13:94, 13:108 and 15:12 alleles. Specific PCR fragment of 250 bp in the DRB1*14:05:01-14:05:04, 14:37, 14:43, 14:45, 14:56, 14:84, 14:91, 14:96, 14:100, 14:103, 14:127 and 14:130 and in the DRB1*13:72 alleles.

Primer mix 14: Specific PCR fragment of 60 bp in the DRB1*14:22, 14:25, 14:53, 14:73, 14:105 and 14:128 and in the DRB1*08:08 alleles. Specific PCR fragment of 130 bp in the DRB1*14:27 and in the DRB1*11:09, 11:28:01-11:28:02, 11:58:01-11:58:02, 11:83, 11:87, 11:113, 11:115, 13:05:01-13:05:02, 13:18, 13:26:01-13:26:02, 13:42, 13:50:01-13:50:02, 13:136 and 16:08 alleles.

Primer mix 20: Specific PCR fragment of 110 bp in the DRB1*14:25, 14:53, 14:58, 14:69 and 14:128 and in the DRB1*13:45 alleles. Specific PCR fragment of 160 bp in the DRB1*14:04, 14:28, 14:31, 14:50, 14:68, 14:71, 14:73, 14:76, 14:79, 14:93, 14:102, 14:107, 14:116 and 14:120 and the DRB1*08:20, 11:23, 11:25, 11:45, 11:55, 11:64, 11:119, 13:13, 13:47 and 13:55 alleles. Specific PCR fragment of 215 bp in the DRB1*14:15 and the DRB1*08:01:02, 08:09, 08:21, 08:27, 08:32, 08:35, 08:36:02 and 08:38 alleles. Specific PCR fragments of 160 and 215 bp in the DRB1*08:01:01, *08:01:03-08:04:07, 08:06-08:07, 08:10-08:17, 08:19, 08:22-08:23, 08:26, 08:28, 08:30:01-08:30:03, 08:33-08:34, 08:36:01, 08:37, 08:39, 08:42, 08:44-08:46, 08:48-08:49 and 11:67 alleles. Specific PCR fragments of 110, 160 and 215 bp in the DRB1*08:08 allele. Not all specific PCR fragments may be obtained in alleles being amplified by more than one primer pair.

Primer mix 21: Specific PCR fragment of 170 bp in DRB1*14:13, 14:63, 14:65, 14:78 and 14:85 and in the DRB1*03:12, 13:03:01-13:04, 13:12:01-13:13, 13:21:01-13:21:02, 13:30, 13:32-13:33:03, 13:38, 13:48-13:49, 13:55, 13:58, 13:65-13:66:02, 13:75, 13:81, 13:88-13:90, 13:93-13:95, 13:101, 13:108, 13:115, 13:118, 13:120, 13:122, 13:133-13:134 and 13:139 alleles. Specific PCR fragment of 215 bp in the DRB1*14:24 and 14:37 and the DRB1*11:69, 11:82, 13:09 and 13:129 alleles.

Primer mix 23: Specific PCR fragment of 145 bp in DRB1*14:17, 14:21, 14:30, 14:33, 14:35, 14:42, 14:53, 14:64-14:65, 14:72, 14:95 and 14:128 and the DRB1*03:01:01:01-03:01:20, 03:04:01-03:05:03, 03:07-03:15, 03:18-03:25, 03:28-03:30, 03:32-03:34, 03:36-03:37, 03:39-03:40, 03:43-03:52, 03:54-03:59, 03:61-03:68N, 03:70-03:73, 03:76-03:79, 03:81, 03:83-03:84, 03:86, 11:01:01-11:01:06, 11:01:08-11:04:10, 11:06:01-11:16, 11:18-11:21, 11:23-11:29, 11:31-11:36, 11:38-11:40, 11:42-11:47, 11:49:01-11:49:02, 11:51, 11:53-11:55, 11:57-11:66, 11:68-11:70, 11:72-11:82, 11:84:01-11:87, 11:89-11:103, 11:105-11:106, 11:108-11:129, 11:131-11:134, 13:01:01-13:01:08, 13:01:10-13:02:07, 13:04-13:06, 13:09-13:11:02, 13:14:01-13:16, 13:18, 13:20-13:25, 13:27-13:31,

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101.117-12u/03u – without *Taq* pol., IFU-02

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13:34, 13:39, 13:41-13:46, 13:50:01-13:52, 13:54, 13:56-13:57, 13:59, 13:61:01-13:64, 13:66:01-13:66:02, 13:68-13:69, 13:71, 13:73-13:75, 13:77-13:79, 13:82-13:83, 13:86-13:87, 13:91-13:93, 13:96:01-13:100, 13:102, 13:104-13:107, 13:109-13:114, 13:117, 13:119, 13:121, 13:123-13:132 and 13:136-13:143 alleles. Specific PCR fragment of 165 bp in the DRB1*14:88 allele.

Primer mix 24: Specific PCR fragment of 75 bp in the DRB1*14:26 and the DRB1*13:92 alleles. Specific PCR fragment of 125 bp in the DRB1*14:36, 14:41, 14:77 and 14:110 and the DRB1*03:18, 03:43, 03:71, 11:76, 11:114, 13:34, 13:64 and 13:136 and in the DRB3*01:14 alleles. Specific PCR fragment of 165 bp in the DRB1*14:90 allele.

Primer mix 25: Specific PCR fragment of 120 bp in the DRB1*14:07:01-14:07:02, 14:22, 14:25, 14:49, 14:53, 14:68-14:69, 14:93, 14:119, 01:14, 04:62, 04:69, 08:08, 08:15, 13:45, DRB3*02:16 alleles. Specific PCR fragment of 210 bp in the DRB1*14:56 allele. Specific PCR fragment of 250 bp in the DRB1*14:44:01-14:44:03 and the DRB1*03:35 alleles.

Primer mix 29: Specific PCR fragment of 125 bp in the DRB1*14:60 and 14:97 and the DRB1*03:26, 03:33, 03:44, 11:44, 11:49:01-11:50, 11:85, 11:127, 13:106 alleles. Specific PCR fragment of 175 bp in the DRB1*14:48 and the DRB1*03:38, 03:79, 13:31, 13:46, 13:54, 13:77, 13:100, DRB3*01:14 alleles. Specific PCR fragment of 220 bp in the DRB1*14:104 and 14:111 and the DRB1*03:14-03:15, 11:105, alleles.

Primer mix 32: Specific PCR fragment of 100 bp in the DRB1*14:13, 14:63, 14:78 and 14:85 and in the DRB1*03:12, 13:32, 13:65, 13:93 and 13:139 alleles. Specific PCR fragment of 145 bp in the DRB1*14:19, 14:21 and 14:109 and in the DRB1*03:76, 13:10 and 13:85 alleles. Specific PCR fragment of 100 and 145 bp in the DRB1*13:120 allele.

Primer mix 35: Specific PCR fragment of 250 bp in the DRB1*14:04, 14:11, 14:15, 14:28, 14:31, 14:50, 14:52, 14:71, 14:73, 14:76, 14:79, 14:107, 14:120 and 14:126 and the DRB1*08:04:01, 08:04:04-08:04:07, 08:06, 08:10, 08:12, 08:22, 08:28, 08:31, 11:67, 12:01:01-12:15, 12:17-12:21, 12:23-12:37, 13:17 and 13:116 alleles. Specific PCR fragment of 280 bp in the DRB1*14:113 and the DRB1*04:85 alleles.

Primer mix 38: Specific PCR fragment of 165 bp in the DRB1*14:05:01, 14:05:03-14:05:04, 14:43-14:45, 14:56, 14:91, 14:96, 14:103 and 14:127 and the DRB1*03:35 alleles. Specific PCR fragment of 165 and 215 bp in the DRB1*14:37 and 14:100 and the DRB1*13:72 alleles.

Primer mix 39: Specific PCR fragment of 120 bp in the DRB1*14:48, 14:108, 14:109 and 14:115 and in the DRB1*03:13:01-03:13:02, 03:38, 03:79, 13:39, 03:58, 03:65 and 13:77-13:79 and the DRB3*01:08 alleles. Specific PCR fragment of 155 bp in the DRB1*14:18, 14:33, 14:51, 14:59, 14:95 and 14:106 and the DRB1*03:11:01 alleles. Specific PCR fragment of 120 and 155 bp in the DRB1*14:64 allele.

Primer mix 40: Specific PCR fragment of 215 bp in the DRB1*14:107 allele. Specific PCR fragment of 250 bp in the DRB1*14:71 allele.

Primer mix 41: Specific PCR fragment of 115 bp in the DRB1*14:91, 14:94 and 14:97 and the DRB1*03:04:01-03:04:02, 03:26, 03:33, 03:44, 11:29, 11:44, 11:47, 11:49:01-11:50, 11:63, 11:85, 11:127, 13:60, 13:84 and 13:106 alleles. Specific PCR fragment of 165 bp in the DRB1*14:90 allele. Specific PCR fragment of 245 bp in the DRB1*14:75 and 14:103 alleles.

Primer mix 42: Specific PCR fragment of 170 bp in the DRB1*14:11 and the DRB1*08:31, 08:41, 11:67 and 12:04 alleles. Specific PCR fragment of 225 bp in the DRB1*14:76, 14:79 and 14:93 alleles.

Primer mix 43: Specific PCR fragment of 95 bp in the DRB1*14:101 allele. Specific PCR fragment of 200 bp in the DRB1*14:76, 14:79 and 14:93 alleles.

Primer mix 44: Specific PCR fragment of 215 bp in the DRB1*14:70 and 14:83 and the DRB1*15:03:01:01-15:03:02, 15:23, 15:54 and 15:57 alleles. Specific PCR fragment of 280 bp in the DRB1*14:113 and the DRB1*04:85 alleles.

Primer mix 46: Specific PCR fragment of 105 bp in the DRB1*14:92N allele. Specific PCR fragment of 165 bp in the DRB1*14:88 allele. Specific PCR fragment of 220 bp in the DRB1*14:87 and 14:89 alleles.

Primer mix 48: Specific PCR fragment of 65 bp in the DRB1*14:98 and the DRB1*11:27:01, 11:84:01, 11:124, 12:22, 13:33:02-13:33:03, 13:61:01 and 13:96:02 alleles. Specific PCR fragment of 190 bp in the DRB1*14:45 allele. Specific PCR fragment of 225 bp in the DRB1*14:127 and the DRB1*03:35 alleles.

'w', might be weakly amplified.

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DRB1*14 SSP subtyping kit																			
				Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:															
				201191401	201312802	201191403	201191404	201191405	201191406	201312807	201191408	201191409	201191410	201312811	201191412	201191413	201191414	201191415	201191416
IHWC cell line		DRB1																	
1	9001 SA	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*15:02	*04:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*04:07	*08:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*03:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*04:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*11:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*13:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*09:01	*11:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*12:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*13:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*14:02		-	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*13:02	*14:54	+	+	-	-	+	+	-	-	-	-	+	+	-	-	-	-
23	9124 IHL	*08:03	*14:14	+	-	-	-	+	-	-	-	-	-	+	-	-	-	-	+
24	9035 JBUSH	*11:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*03:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*04:05	*10:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*04:16	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*03:02		-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*03:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*13:03		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*04:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*11:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*04:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*04:03	*04:06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*13:01		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*14:02		-	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*03:01	*04:01	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*07:01	*09:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*13:02		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*08:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*14:01		+	+	-	-	-	+	-	-	-	-	-	+	+	-	-	-
45	9239 SHJO	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*11:04	*12:01	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-	-
48	9303 TER-ND	*01:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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DRB1*14 SSP subtyping kit																				
				Well																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.:	201191417	201191418	201191419	201312820	201191421	201191422	201312823	201191424	201191425	201191426	201191427	201312828	201312829	201191430	201191431	201191432
IHCW cell line		DRB1																		
1	9001	SA	*01:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280	LK707	*15:02	*04:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	9011	E4181324	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	9275	GU373	*03:01		-	+	-	-	-	-	+	-	-	-	-	-	-	+	-	
5	9009	KAS011	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353	SM	*04:07	*08:03	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
7	9020	QBL	*03:01		-	+	-	-	-	-	+	-	-	-	-	-	-	+	-	
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026	YAR	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107	LKT3	*04:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051	PITOUT	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052	DBB	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004	JESTHOM	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071	OLGA	*08:02		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
15	9075	DKB	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037	SWEIG007	*11:01		-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	
17	9282	CTM3953540	*03:01	*13:01	-	+	-	-	-	-	+	-	-	-	-	-	-	+	-	
18	9257	32367	*09:01	*11:01	-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	
19	9038	BM16	*12:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059	SLE005	*13:02		-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	
21	9064	AMALA	*14:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
22	9056	KOSE	*13:02	*14:54	-	+	-	-	-	+	+	-	-	-	-	-	-	-	-	
23	9124	IHL	*08:03	*14:14	-	+	-	+	-	+	-	-	-	-	-	-	-	-	-	
24	9035	JBUSH	*11:01		-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	
25	9049	IBW9	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285	WT49	*03:01		-	+	-	-	-	-	+	-	-	-	-	-	-	+	-	
27	9191	CH1007	*04:05	*10:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28	9320	BEL5GB	*04:16	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	9050	MOU	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021	RSH	*03:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
31	9019	DUCAF	*03:01		-	+	-	-	-	-	+	-	-	-	-	-	-	+	-	
32	9297	HAG	*13:03		+	+	-	-	+	+	-	-	-	-	-	-	-	-	-	
33	9098	MT14B	*04:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104	DHIF	*11:01		-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	
35	9302	SSTO	*04:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	9024	KT17	*04:03	*04:06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	9065	HHKB	*13:01		-	+	-	-	-	-	+	-	-	-	-	-	-	+	-	
38	9099	LZL	*14:02		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
39	9315	CML	*03:01	*04:01	-	+	-	-	-	-	+	-	-	-	-	-	-	+	-	
40	9134	WHONP199	*07:01	*09:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	9055	H0301	*13:02		-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	
42	9066	TAB089	*08:03		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	
43	9076	T7526	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	9057	TEM	*14:01		-	+	-	-	-	+	-	-	-	+	-	-	-	-	-	
45	9239	SHJO	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
46	9013	SCHU	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	9045	TUBO	*11:04	*12:01	-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	
48	9303	TER-ND	*01:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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Lot No.: **81R**

Lot-specific information

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CELL LINE VALIDATION SHEET				DRB1*14 SSP subtyping kit																
				Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
				Prod. No.:	201191433	201191434	201312835	201191436	201191437	201312838	201191439	201312840	201191441	201312842	201312843	201312844	201191445	201191446	201191447	201191448
IHCW cell line		DRB1																		
1	9001	SA	*01:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*15:02	*04:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*04:07	*08:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*04:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*11:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*13:01	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*09:01	*11:01	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*12:01		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*13:02		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*13:02	*14:54	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*08:03	*14:14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
24	9035	JBUSH	*11:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*04:05	*10:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*04:16	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*03:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*13:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*04:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*11:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*04:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*04:03	*04:06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*13:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*14:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*03:01	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134	WHONP199	*07:01	*09:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*13:02		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*08:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
43	9076	T7526	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*14:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*11:04	*12:01	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*01:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.117-12/03 – including *Taq* pol., IFU-01
 101.117-12u/03u – without *Taq* pol., IFU-02

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Lot No.: **81R**

Lot-specific information

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CERTIFICATE OF ANALYSIS

Olerup SSP® DRB1*14 SSP

Product number: 101.117-12/03 – including *Taq* pol.
 101.117-12u/03u – without *Taq* pol.
Lot number: 81R
Expiry date: 2015-July-01
Number of tests: 12 tests – Product No. 101.117-12/12u
 3 tests – Product No. 101.117-03/03u
Number of wells per test: 48

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2011-914-01	17	2011-914-17	33	2011-914-33
2	2013-128-02	18	2011-914-18	34	2011-914-34
3	2011-914-03	19	2011-914-19	35	2013-128-35
4	2011-914-04	20	2013-128-20	36	2011-914-36
5	2011-914-05	21	2011-914-21	37	2011-914-37
6	2011-914-06	22	2011-914-22	38	2013-128-38
7	2013-128-07	23	2013-128-23	39	2011-914-39
8	2011-914-08	24	2011-914-24	40	2013-128-40
9	2011-914-09	25	2011-914-25	41	2011-914-41
10	2011-914-10	26	2011-914-26	42	2013-128-42
11	2013-128-11	27	2011-914-27	43	2013-128-43
12	2011-914-12	28	2013-128-28	44	2013-128-44
13	2011-914-13	29	2013-128-29	45	2011-914-45
14	2011-914-14	30	2011-914-30	46	2011-914-46
15	2011-914-15	31	2011-914-31	47	2011-914-47
16	2011-914-16	32	2011-914-32	48	2011-914-48

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 10, 11, 14, 15, 19, 24, 27 to 29, 31, 39, 40, 43, 45, 46 and 48 were available.

The specificities of the primers in primer solutions 10, 11, 14, 15, 19, 24, 27 to 29, 31, 39, 43, 45 and 48 were tested by separately adding one or two additional 5'-primer, respectively, one or several additional 3'-primers.

In primer solutions 40 and 46 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 10, 14, 35, 43 and 44 one or two of the 5'-primers were not possible to test, and in primer solutions 7, 17, 22 to 25, 29, 37, 39, 41 and 48 one or more of the 3'-primers were not possible to test.

Additional primers in primer solutions 12, 21, 25, 32, 36, 38, 41 and 42 were tested by separately adding one 5'-primer and/or one 3'-primer.

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

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

Date of approval: 2013-February-08

Approved by:

Production Quality Control

101.117-12/03 – including *Taq* pol., IFU-01
101.117-12u/03u – without *Taq* pol., IFU-02

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Declaration of Conformity

Product name: *Olerup* SSP® DRB1*14
Product number: 101.117-12/12u, 03/03u
Lot number: 81R

Intended use: DRB1*14 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
2013-February-08

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.117-12/03 – including *Taq* pol., IFU-01
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For information on *Olerup* SSP distributors worldwide, contact **Olerup GmbH**.