

101.113-24/04 – including *Taq* polymerase, IFU-01
101.113-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **90N**

Lot-specific information
Olerup SSP® DRB1*03

Product number:	101.113-24/04 – including <i>Taq</i> pol. 101.113-24u/04u – without <i>Taq</i> pol.
Lot number:	90N
Expiry date:	2015-January-01
Number of tests:	24 tests – Product No. 101.113-24/24u 4 tests – Product No. 101.113-04/04u
Number of wells per test:	32
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. 90N.

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP®
DRB1*03 Lot (52M)**

The DRB1*03 kit is updated to enable separation of:

- Confirmed DRB1*03 alleles as listed in the IMGT/HLA database¹
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

The Lot-specific information for DRB1*03 including and without *Taq* polymerase
is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

The DRB1*03 specificity and interpretation tables have been updated for the DRB alleles described since the previous *Olerup SSP®* DRB1*03 lot was made (**Lot No. 52M**).

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Lot No.: 90N**Lot-specific information**

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

Well	5'-primer	3'-primer	rationale
9	-	Added	3'-primer added for the DRB1*03:01:12 allele.
12	-	Added	3'-primer added for the DRB1*03:76 allele.
13	-	Added	3'-primer added for the DRB1*03:62 allele.
14	-	Added	3'-primer added for the DRB1*03:68N allele.
15	-	Modified, added	3'-primer added for the DRB1*03:62 allele, improved specificity of amplification.
18	Added	-	5'-primer added for the DRB1*03:01:16 allele.
20	-	Added	3'-primer added for the DRB1*03:68N allele.
22	-	Added	3'-primer added for the DRB1*03:72 allele.
23	-	Added	3'-primer added for the DRB1*03:72 allele.
25	Added	-	5'-primer added for the DRB1*03:67N allele.
27	-	Added	3'-primer added for the DRB1*03:53 allele.
28	Added	-	5'-primer added for the DRB1*03:67N allele.

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Lot No.: **90N**

Lot-specific information

PRODUCT DESCRIPTION

DRB1*03 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DRB1*03:01 to DRB1*03:81 alleles.

PLATE LAYOUT

Each test consists of 32 PCR reactions in a 32 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

The 32 well cut PCR plate is marked with 'DRB1*03' in silver/gray ink.

Well No. 1 is marked with the Lot No. '90N'.

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

The PCR plates are heat-sealed with a PCR-compatible foil.

Please note: When removing each 32 well PCR plate, make sure that the remaining plates stay sealed. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

The interpretation of DRB1*03 PCR-SSP subtypings will be influenced by the DRB1*01:16 allele, the DRB1*04:22 allele, the DRB1*08:20 allele, four DRB1*09 alleles, several DRB1*11 alleles, three DRB1*12 alleles, most DRB1*13, most DRB1*14, two DRB1*15 alleles and the DRB1*16:08 allele when present on the other haplotype. In addition, primer mix 3 will amplify the DRB3*01:08, DRB3*02:06 and DRB3*02:20 alleles, primer mix 8 will amplify the DRB3*01:09, DRB3*02:04, DRB3*02:19, DRB3*02:22 and DRB3*03:03 alleles, primer mix 9 will amplify the DRB3*01:07 allele, primer mix 24 will amplify the DRB3*02:20 allele and the DRB3*01:14 allele will be amplified by primer mixes 10, 11 and 26.

UNIQUELY IDENTIFIED ALLELES

All the phenotypically different DRB1*03 alleles, i.e. **DRB1*03:01 to DRB1*03:81**, recognized by the HLA Nomenclature Committee in April 2010¹ will be amplified by the primers in the DRB1*03 subtyping kit².

The DRB1*03 kit enables separation of the confirmed DRB1*03 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*03 alleles is listed below.

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Lot No.: 90N**Lot-specific information**

The DRB1*03 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*03 subtyping kit cannot distinguish the following silent mutations: the DRB1*03:01:01:01-03:01:19, the DRB1*03:02:01 and 03:02:02, the DRB1*03:05:01 to 03:05:03 or the DRB1*03:13:01 and 03:13:02 alleles.

¹DRB1 alleles listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, www.ebi.ac.uk/imgt/hla.

²The DRB1*03 primer set cannot separate the DRB1*03:77 and DRB1*14:95 alleles. These alleles can be distinguished by the DR low resolution kit and/or the DRB1*14 high resolution kit.

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
DRB1*03:01:01:01	Confirmed	DRB1*03:08	Unconfirmed	DRB1*03:37	Confirmed	DRB1*03:67N	Unconfirmed
DRB1*03:01:01:02	Unconfirmed	DRB1*03:09	Unconfirmed	DRB1*03:38	Unconfirmed	DRB1*03:68N	Unconfirmed
DRB1*03:01:02	Confirmed	DRB1*03:10	Unconfirmed	DRB1*03:39	Unconfirmed	DRB1*03:69	Unconfirmed
DRB1*03:01:03	Unconfirmed	DRB1*03:11:01	Unconfirmed	DRB1*03:40	Unconfirmed	DRB1*03:70	Unconfirmed
DRB1*03:01:04	Unconfirmed	DRB1*03:12	Unconfirmed	DRB1*03:41	Unconfirmed	DRB1*03:71	Unconfirmed
DRB1*03:01:05	Unconfirmed	DRB1*03:13:01	Unconfirmed	DRB1*03:42	Confirmed	DRB1*03:72	Confirmed
DRB1*03:01:06	Unconfirmed	DRB1*03:13:02	Confirmed	DRB1*03:43	Confirmed	DRB1*03:73	Unconfirmed
DRB1*03:01:07	Confirmed	DRB1*03:14	Unconfirmed	DRB1*03:44	Confirmed	DRB1*03:74	Unconfirmed
DRB1*03:01:08	Unconfirmed	DRB1*03:15	Confirmed	DRB1*03:45	Unconfirmed	DRB1*03:75	Unconfirmed
DRB1*03:01:09	Unconfirmed	DRB1*03:16	Unconfirmed	DRB1*03:46	Unconfirmed	DRB1*03:76	Confirmed
DRB1*03:01:10	Unconfirmed	DRB1*03:17	Unconfirmed	DRB1*03:47	Confirmed	DRB1*03:77	Unconfirmed
DRB1*03:01:11	Confirmed	DRB1*03:18	Unconfirmed	DRB1*03:48	Confirmed	DRB1*03:78	Unconfirmed
DRB1*03:01:12	Confirmed	DRB1*03:19	Confirmed	DRB1*03:49	Unconfirmed	DRB1*03:79	Unconfirmed
DRB1*03:01:13	Unconfirmed	DRB1*03:20	Unconfirmed	DRB1*03:50	Confirmed	DRB1*03:80	Unconfirmed
DRB1*03:01:14	Confirmed	DRB1*03:21	Confirmed	DRB1*03:51	Unconfirmed	DRB1*03:81	Unconfirmed
DRB1*03:01:15	Confirmed	DRB1*03:22	Confirmed	DRB1*03:52	Unconfirmed		
DRB1*03:01:16	Confirmed	DRB1*03:23	Confirmed	DRB1*03:53	Confirmed		
DRB1*03:01:17	Unconfirmed	DRB1*03:24	Unconfirmed	DRB1*03:54	Unconfirmed		
DRB1*03:01:18	Unconfirmed	DRB1*03:25	Unconfirmed	DRB1*03:55	Unconfirmed		
DRB1*03:01:19	Unconfirmed	DRB1*03:26	Unconfirmed	DRB1*03:56	Unconfirmed		
DRB1*03:02:01	Confirmed	DRB1*03:27	Confirmed	DRB1*03:57	Unconfirmed		
DRB1*03:02:02	Confirmed	DRB1*03:28	Unconfirmed	DRB1*03:58	Unconfirmed		
DRB1*03:03	Confirmed	DRB1*03:29	Confirmed	DRB1*03:59	Unconfirmed		
DRB1*03:04:01	Confirmed	DRB1*03:30	Unconfirmed	DRB1*03:60	Unconfirmed		
DRB1*03:04:02	Unconfirmed	DRB1*03:31	Unconfirmed	DRB1*03:61	Unconfirmed		
DRB1*03:05:01	Confirmed	DRB1*03:32	Unconfirmed	DRB1*03:62	Confirmed		
DRB1*03:05:02	Unconfirmed	DRB1*03:33	Confirmed	DRB1*03:63	Unconfirmed		
DRB1*03:05:03	Confirmed	DRB1*03:34	Unconfirmed	DRB1*03:64	Unconfirmed		
DRB1*03:06	Confirmed	DRB1*03:35	Unconfirmed	DRB1*03:65	Unconfirmed		
DRB1*03:07	Confirmed	DRB1*03:36	Unconfirmed	DRB1*03:66	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, www.ebi.ac.uk/imgt/hla.

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RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 105 alleles generate 66 amplification patterns that can be combined in 2211 homozygous and heterozygous combinations. 1244 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.

+---+---	+-----+--	+-----+--	-----+--	*03:16, *03:16 = *03:16, *03:57
-----+--	+---+---	-----+--	-----+--	*03:17, *03:17 = *03:17, *03:35
-----+--	-----+--	+-----+--	-----+--	*03:40, *03:40 = *03:40, *03:49
-----+--	-----+--	+-----+--	-----+--	*03:21, *03:21 = *03:21, *03:49
-----+--	-----+--	+-----+--	-----+--	*03:07, *03:07 = *03:07, *03:49 = *03:07, *03:54 = *03:49, *03:54
-----+--	+-----+--	+-----+--	-----+--	*03:40, *03:41 = *03:41, *03:49
-----+--	+-----+--	+-----+--	-----+--	*03:07, *03:40 = *03:40, *03:54
-----+--	-----+--	+-----+--	-----+--	*03:07, *03:21 = *03:21, *03:54
-----+--	-----+--	+-----+--	-----+--	*03:07, *03:24 = *03:24, *03:49
-----+--	+-----+--	+-----+--	-----+--	*03:05:01, *03:05:01 = *03:05:01, *03:57
+---+---	-----+--	+-----+--	-----+--	*03:46, *03:46 = *03:46, *03:64
+---+---	-----+--	+-----+--	-----+--	*03:10, *03:10 = *03:10, *03:64
+---+---	+-----+--	+-----+--	-----+--	*03:64, *03:69 = *03:69, *03:69
+---+---	-----+--	+-----+--	-----+--	*03:08, *03:08 = *03:08, *03:64
-----+--	+-----+--	+-----+--	-----+--	*03:07, *03:41 = *03:41, *03:54
-----+--	+-----+--	+-----+--	-----+--	*03:05:01, *03:14 = *03:14, *03:14 = *03:14, *03:57
+---+---	+-----+--	-----+--	-----+--	*03:27, *03:27 = *03:27, *03:35
+---+---	-----+--	+-----+--	-----+--	*03:29, *03:29 = *03:29, *03:49
+---+---	+-----+--	-----+--	-----+--	*03:31, *03:75 = *03:75, *03:75
+---+---	+-----+--	+-----+--	-----+--	*03:52, *03:52 = *03:52, *03:57
+---+---	+-----+--	+-----+--	-----+--	*03:44, *03:44 = *03:44, *03:57
+---+---	+-----+--	+-----+--	-----+--	*03:30, *03:30 = *03:30, *03:57
+---+---	+-----+--	+-----+--	-----+--	*03:25, *03:25 = *03:25, *03:57
+---+---	+-----+--	+-----+--	-----+--	*03:04:01, *03:04:01 = *03:04:01, *03:57
+---+---	+-----+--	-----+--	-----+--	*03:06, *03:26 = *03:26, *03:26
+---+---	+-----+--	-----+--	-----+--	*03:06, *03:80 = *03:80, *03:80
+---+---	+-----+--	-----+--	-----+--	*03:06, *03:24 = *03:06, *03:35
+---+---	-----+--	+-----+--	-----+--	*03:12, *03:12 = *03:12, *03:54 = *03:12, *03:64
+---+---	+-----+--	+-----+--	-----+--	*03:54, *03:79 = *03:64, *03:79 = *03:79, *03:79
+---+---	+-----+--	+-----+--	-----+--	*03:01:01:01, *03:01:01:01 = *03:01:01:01, *03:54 = *03:01:01:01, *03:57 = *03:01:01:01, *03:64 = *03:01:01:01, *03:69 = *03:01:01:01, *03:77 = *03:54, *03:69 = *03:54, *03:77 = *03:57, *03:64 = *03:57, *03:69 = *03:57, *03:77 = *03:64, *03:77 = *03:69, *03:77
+---+---	+-----+--	+-----+--	-----+--	*03:42, *03:42 = *03:42, *03:64 = *03:42, *03:69
+---+---	+-----+--	-----+--	-----+--	*03:11:01, *03:11:01 = *03:11:01, *03:24 = *03:11:01, *03:77 = *03:24, *03:77
+---+---	+-----+--	-----+--	-----+--	*03:76, *03:76 = *03:76, *03:77
+---+---	-----+--	+-----+--	-----+--	*03:07, *03:64 = *03:49, *03:64
+---+---	+-----+--	+-----+--	-----+--	*03:05:01, *03:09 = *03:09, *03:09 = *03:09, *03:57
+---+---	+-----+--	+-----+--	-----+--	*03:03, *03:07 = *03:03, *03:49 = *03:03, *03:54
+---+---	+-----+--	-----+--	-----+--	*03:03, *03:24 = *03:03, *03:35
+---+---	-----+--	+-----+--	-----+--	*03:29, *03:53 = *03:49, *03:53
+---+---	+-----+--	+-----+--	-----+--	*03:02:01, *03:29 = *03:02:01, *03:49
+---+---	+-----+--	-----+--	-----+--	*03:02:01, *03:27 = *03:02:01, *03:35
+---+---	+-----+--	-----+--	-----+--	*03:02:01, *03:38 = *03:38, *03:38
+---+---	-----+--	+-----+--	-----+--	*03:07, *03:29 = *03:29, *03:54
+---+---	+-----+--	-----+--	-----+--	*03:31, *03:41 = *03:41, *03:75
+---+---	+-----+--	+-----+--	-----+--	*03:30, *03:43 = *03:30, *03:44 = *03:43, *03:43 = *03:43, *03:44 = *03:43, *03:57
+---+---	+-----+--	+-----+--	-----+--	*03:25, *03:31 = *03:31, *03:57
+---+---	+-----+--	+-----+--	-----+--	*03:40, *03:52 = *03:49, *03:52
+---+---	+-----+--	+-----+--	-----+--	*03:21, *03:30 = *03:30, *03:49
+---+---	+-----+--	-----+--	-----+--	*03:24, *03:26 = *03:26, *03:35
+---+---	+-----+--	-----+--	-----+--	*03:06, *03:17 = *03:17, *03:80 = *03:24, *03:80 = *03:35, *03:80
+---+---	+-----+--	+-----+--	-----+--	*03:06, *03:07 = *03:06, *03:49
+---+---	+-----+--	+-----+--	-----+--	*03:01:01:01, *03:48 = *03:48, *03:48 = *03:48, *03:54 = *03:48, *03:57 =

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+---+---+--- +----- -+----- -----++
*03:48, *03:64 = *03:48, *03:69 = *03:48, *03:77
*03:01:01:01, *03:50 = *03:50, *03:50 = *03:50, *03:54 = *03:50, *03:57 =
*03:50, *03:64 = *03:50, *03:69 = *03:50, *03:77
+---+---+--- +----- -+----- -----++
*03:01:01:01, *03:39 = *03:01:01:01, *03:52 = *03:39, *03:39 = *03:39, *03:52
= *03:39, *03:54 = *03:39, *03:57 = *03:39, *03:64 = *03:39, *03:69 = *03:39,
*03:77 = *03:52, *03:54 = *03:52, *03:64 = *03:52, *03:69 = *03:52, *03:77
+---+---+--- +----- -+----- -----++
*03:01:01:01, *03:36 = *03:36, *03:36 = *03:36, *03:54 = *03:36, *03:57 =
*03:36, *03:64 = *03:36, *03:69 = *03:36, *03:77
+---+---+--- +----- -+----- -----++
*03:01:01:01, *03:34 = *03:01:01:01, *03:46 = *03:34, *03:34 = *03:34, *03:46
= *03:34, *03:54 = *03:34, *03:57 = *03:34, *03:64 = *03:34, *03:69 = *03:34,
*03:77 = *03:46, *03:57 = *03:46, *03:77
+---+---+--- +----- -+----- -----++
*03:01:01:01, *03:33 = *03:01:01:01, *03:44 = *03:33, *03:33 = *03:33, *03:44
= *03:33, *03:54 = *03:33, *03:57 = *03:33, *03:64 = *03:33, *03:69 = *03:33,
*03:77 = *03:44, *03:54 = *03:44, *03:64 = *03:44, *03:69 = *03:44, *03:77
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:32 = *03:32, *03:32 = *03:32, *03:54 = *03:32, *03:57 =
*03:32, *03:64 = *03:32, *03:69 = *03:32, *03:77
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:19 = *03:19, *03:19 = *03:19, *03:54 = *03:19, *03:57 =
*03:19, *03:64 = *03:19, *03:69 = *03:19, *03:77
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:18 = *03:18, *03:18 = *03:18, *03:54 = *03:18, *03:57 =
*03:18, *03:64 = *03:18, *03:69 = *03:18, *03:77
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:30 = *03:01:01:01, *03:42 = *03:30, *03:42 = *03:30, *03:54
= *03:30, *03:64 = *03:30, *03:69 = *03:30, *03:77 = *03:42, *03:54 = *03:42,
*03:57 = *03:42, *03:77
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:25 = *03:01:01:01, *03:28 = *03:25, *03:28 = *03:25, *03:54
= *03:25, *03:64 = *03:25, *03:69 = *03:25, *03:77 = *03:28, *03:28 = *03:28,
*03:54 = *03:28, *03:57 = *03:28, *03:64 = *03:28, *03:69 = *03:28, *03:77
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:22 = *03:22, *03:22 = *03:22, *03:54 = *03:22, *03:57 =
*03:22, *03:64 = *03:22, *03:69 = *03:22, *03:77
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:20 = *03:20, *03:20 = *03:20, *03:54 = *03:20, *03:57 =
*03:20, *03:64 = *03:20, *03:69 = *03:20, *03:77
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:15 = *03:15, *03:15 = *03:15, *03:54 = *03:15, *03:57 =
*03:15, *03:64 = *03:15, *03:69 = *03:15, *03:77
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:37 = *03:37, *03:37 = *03:37, *03:54 = *03:37, *03:57 =
*03:37, *03:64 = *03:37, *03:69 = *03:37, *03:77
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:12 = *03:01:01:01, *03:16 = *03:12, *03:16 = *03:12, *03:57
= *03:12, *03:69 = *03:12, *03:77 = *03:16, *03:64 = *03:16, *03:69 = *03:16,
*03:77
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:11:01 = *03:01:01:01, *03:24 = *03:01:01:01, *03:47 =
*03:11:01, *03:47 = *03:11:01, *03:54 = *03:11:01, *03:57 = *03:11:01, *03:64
= *03:11:01, *03:69 = *03:24, *03:47 = *03:24, *03:69 = *03:47, *03:47 =
*03:47, *03:54 = *03:47, *03:57 = *03:47, *03:64 = *03:47, *03:69 = *03:47,
*03:77
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:10 = *03:01:01:01, *03:51 = *03:01:01:01, *03:76 = *03:10,
*03:51 = *03:10, *03:57 = *03:10, *03:76 = *03:10, *03:77 = *03:51, *03:51 =
*03:51, *03:54 = *03:51, *03:57 = *03:51, *03:64 = *03:51, *03:69 = *03:51,
*03:76 = *03:51, *03:77 = *03:54, *03:76 = *03:57, *03:76 = *03:64, *03:76 =
*03:69, *03:76
+---+---+--- +----- -+----- +-----++
*03:11:01, *03:76 = *03:24, *03:76
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:13:01 = *03:01:01:01, *03:79 = *03:13:01, *03:13:01 =
*03:13:01, *03:54 = *03:13:01, *03:57 = *03:13:01, *03:64 = *03:13:01, *03:69
= *03:13:01, *03:77 = *03:13:01, *03:79 = *03:57, *03:79 = *03:69, *03:79 =
*03:77, *03:79
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:06 = *03:06, *03:57 = *03:06, *03:64 = *03:06, *03:69
+---+---+--- +----- -+----- +-----++
*03:06, *03:11:01 = *03:11:01, *03:35 = *03:35, *03:77
+---+---+--- +----- -+----- +-----++
*03:07, *03:46 = *03:46, *03:49
+---+---+--- +----- -+----- +-----++
*03:07, *03:12 = *03:12, *03:49
+---+---+--- +----- -+----- +-----++
*03:07, *03:10 = *03:10, *03:49
+---+---+--- +----- -+----- +-----++
*03:07, *03:79 = *03:49, *03:79
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:07 = *03:01:01:01, *03:49 = *03:07, *03:69 = *03:07, *03:77
= *03:49, *03:69 = *03:49, *03:77
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:08 = *03:08, *03:57 = *03:08, *03:77
+---+---+--- +----- -+----- +-----++
*03:07, *03:08 = *03:08, *03:49
+---+---+--- +----- -+----- +-----++
*03:01:01:01, *03:04:01 = *03:04:01, *03:54 = *03:04:01, *03:64 = *03:04:01,

101.113-24/04 – including *Taq* polymerase, IFU-01
101.113-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 90N

Lot-specific information

[illegible]

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Lot No.: 90N

Lot-specific information

+--+++--	+--+--	+--+--	+--+--	*03:25, *03:34 = *03:25, *03:46 = *03:28, *03:34 = *03:28, *03:46
+--+++--	+-----	+--+--	+--+--	*03:25, *03:33 = *03:28, *03:33 = *03:28, *03:44
+--+++--	+-----	+--+--	+--+--	*03:25, *03:32 = *03:28, *03:32
+--+++--	+-----	+--+--	+--+--	*03:19, *03:25 = *03:19, *03:28
+--+++--	+-----	+--+--	+--+--	*03:18, *03:25 = *03:18, *03:28
+--+++--	+-----	+--+--	+--+--	*03:25, *03:42 = *03:28, *03:30 = *03:28, *03:42
+--+++--	+-----	+--+--	+--+--	*03:22, *03:39 = *03:22, *03:52
+--+++--	+-----	+--+--	+--+--	*03:22, *03:34 = *03:22, *03:46
+--+++--	+-----	+--+--	+--+--	*03:22, *03:33 = *03:22, *03:44
+--+++--	+-----	+--+--	+--+--	*03:22, *03:30 = *03:22, *03:42
+--+++--	+-----	+--+--	+--+--	*03:22, *03:25 = *03:22, *03:28
+--+++--	+-----	+--+--	+--+--	*03:20, *03:39 = *03:20, *03:52
+--+++--	+-----	+--+--	+--+--	*03:20, *03:34 = *03:20, *03:46
+--+++--	+-----	+--+--	+--+--	*03:20, *03:33 = *03:20, *03:44
+--+++--	+-----	+--+--	+--+--	*03:20, *03:30 = *03:20, *03:42
+--+++--	+-----	+--+--	+--+--	*03:20, *03:25 = *03:20, *03:28
+--+++--	+-----	+--+--	+--+--	*03:15, *03:39 = *03:15, *03:52
+--+++--	+-----	+--+--	+--+--	*03:15, *03:34 = *03:15, *03:46
+--+++--	+-----	+--+--	+--+--	*03:15, *03:33 = *03:15, *03:44
+--+++--	+-----	+--+--	+--+--	*03:15, *03:30 = *03:15, *03:42
+--+++--	+-----	+--+--	+--+--	*03:15, *03:25 = *03:15, *03:28
+--+++--	+-----	+--+--	+--+--	*03:37, *03:39 = *03:37, *03:52
+--+++--	+-----	+--+--	+--+--	*03:34, *03:37 = *03:37, *03:46
+--+++--	+-----	+--+--	+--+--	*03:33, *03:37 = *03:37, *03:44
+--+++--	+-----	+--+--	+--+--	*03:30, *03:37 = *03:37, *03:42
+--+++--	+-----	+--+--	+--+--	*03:25, *03:37 = *03:28, *03:37
+--+++--	+-----	+--+--	+--+--	*03:12, *03:48 = *03:16, *03:48
+--+++--	+-----	+--+--	+--+--	*03:12, *03:50 = *03:16, *03:50
+--+++--	+-----	+--+--	+--+--	*03:12, *03:39 = *03:12, *03:52 = *03:16, *03:39
+--+++--	+-----	+--+--	+--+--	*03:12, *03:36 = *03:16, *03:36
+--+++--	+-----	+--+--	+--+--	*03:12, *03:34 = *03:16, *03:34 = *03:16, *03:46
+--+++--	+-----	+--+--	+--+--	*03:12, *03:33 = *03:12, *03:44 = *03:16, *03:33
+--+++--	+-----	+--+--	+--+--	*03:12, *03:32 = *03:16, *03:32
+--+++--	+-----	+--+--	+--+--	*03:12, *03:19 = *03:16, *03:19
+--+++--	+-----	+--+--	+--+--	*03:12, *03:18 = *03:16, *03:18
+--+++--	+-----	+--+--	+--+--	*03:12, *03:30 = *03:12, *03:42 = *03:16, *03:42
+--+++--	+-----	+--+--	+--+--	*03:01:01:01, *03:68N = *03:12, *03:25 = *03:12, *03:28 = *03:12, *03:68N = *03:16, *03:28 = *03:16, *03:68N = *03:25, *03:68N = *03:28, *03:68N = *03:54, *03:68N = *03:57, *03:68N = *03:64, *03:68N = *03:68N, *03:68N = *03:68N, *03:69 = *03:68N, *03:77
+--+++--	+-----	+--+--	+--+--	*03:12, *03:22 = *03:16, *03:22
+--+++--	+-----	+--+--	+--+--	*03:12, *03:20 = *03:16, *03:20
+--+++--	+-----	+--+--	+--+--	*03:12, *03:15 = *03:15, *03:16
+--+++--	+-----	+--+--	+--+--	*03:12, *03:37 = *03:16, *03:37
+--+++--	+-----	+--+--	+--+--	*03:11:01, *03:48 = *03:24, *03:48 = *03:47, *03:48
+--+++--	+-----	+--+--	+--+--	*03:11:01, *03:50 = *03:24, *03:50 = *03:47, *03:50
+--+++--	+-----	+--+--	+--+--	*03:11:01, *03:39 = *03:11:01, *03:52 = *03:24, *03:39 = *03:24, *03:52 = *03:39, *03:47 = *03:47, *03:52
+--+++--	+-----	+--+--	+--+--	*03:11:01, *03:36 = *03:24, *03:36 = *03:36, *03:47
+--+++--	+-----	+--+--	+--+--	*03:11:01, *03:34 = *03:11:01, *03:46 = *03:24, *03:34 = *03:34, *03:47 = *03:46, *03:47
+--+++--	+-----	+--+--	+--+--	*03:11:01, *03:33 = *03:11:01, *03:44 = *03:24, *03:33 = *03:24, *03:44 = *03:33, *03:47 = *03:44, *03:47
+--+++--	+-----	+--+--	+--+--	*03:11:01, *03:32 = *03:24, *03:32 = *03:32, *03:47
+--+++--	+-----	+--+--	+--+--	*03:11:01, *03:19 = *03:19, *03:24 = *03:19, *03:47
+--+++--	+-----	+--+--	+--+--	*03:11:01, *03:18 = *03:18, *03:24 = *03:18, *03:47
+--+++--	+-----	+--+--	+--+--	*03:11:01, *03:30 = *03:11:01, *03:42 = *03:24, *03:30 = *03:24, *03:42 = *03:30, *03:47 = *03:42, *03:47
+--+++--	+-----	+--+--	+--+--	*03:11:01, *03:25 = *03:11:01, *03:28 = *03:24, *03:25 = *03:24, *03:28 = *03:25, *03:47 = *03:28, *03:47
+--+++--	+-----	+--+--	+--+--	*03:11:01, *03:22 = *03:22, *03:24 = *03:22, *03:47
+--+++--	+-----	+--+--	+--+--	*03:11:01,

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101.113-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 90N

Lot-specific information

+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:01:01:01, *03:62 = *03:11:01, *03:37 = *03:11:01, *03:62 = *03:24, *03:37 = *03:24, *03:62 = *03:37, *03:47 = *03:37, *03:62 = *03:47, *03:62 = *03:54, *03:62 = *03:57, *03:62 = *03:62, *03:62 = *03:62, *03:64 = *03:62, *03:69 = *03:62, *03:77
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:11:01, *03:12 = *03:11:01, *03:16 = *03:12, *03:47 = *03:16, *03:47
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:48 = *03:48, *03:51 = *03:48, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:50 = *03:50, *03:51 = *03:50, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:39 = *03:10, *03:52 = *03:39, *03:51 = *03:39, *03:76 = *03:51, *03:52 = *03:52, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:36 = *03:36, *03:51 = *03:36, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:34 = *03:34, *03:51 = *03:34, *03:76 = *03:46, *03:51 = *03:46, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:33 = *03:10, *03:44 = *03:33, *03:51 = *03:33, *03:76 = *03:44, *03:51 = *03:44, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:32 = *03:32, *03:51 = *03:32, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:19 = *03:19, *03:51 = *03:19, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:18 = *03:18, *03:51 = *03:18, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:30 = *03:30, *03:51 = *03:30, *03:76 = *03:42, *03:51 = *03:42, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:25 = *03:10, *03:28 = *03:25, *03:51 = *03:25, *03:76 = *03:28, *03:51 = *03:28, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:22 = *03:22, *03:51 = *03:22, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:20 = *03:20, *03:51 = *03:20, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:15 = *03:15, *03:51 = *03:15, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:37 = *03:37, *03:51 = *03:37, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:16 = *03:12, *03:51 = *03:12, *03:76 = *03:16, *03:51 = *03:16, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:11:01 = *03:10, *03:47 = *03:11:01, *03:51 = *03:24, *03:51 = *03:47, *03:51 = *03:47, *03:76
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:48 = *03:48, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:50 = *03:50, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:39 = *03:13:01, *03:52 = *03:39, *03:79 = *03:52, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:36 = *03:36, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:34 = *03:13:01, *03:46 = *03:34, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:33 = *03:13:01, *03:44 = *03:33, *03:79 = *03:44, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:32 = *03:32, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:01:01:01, *03:23 = *03:13:01, *03:19 = *03:13:01, *03:23 = *03:19, *03:23 = *03:19, *03:79 = *03:23, *03:23 = *03:23, *03:54 = *03:23, *03:57 = *03:23, *03:64 = *03:23, *03:69 = *03:23, *03:77 = *03:23, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:18 = *03:18, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:30 = *03:13:01, *03:42 = *03:30, *03:79 = *03:42, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:25 = *03:13:01, *03:28 = *03:25, *03:79 = *03:28, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:22 = *03:22, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:20 = *03:20, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:15 = *03:15, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:13:01, *03:37 = *03:37, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:12, *03:13:01 = *03:13:01, *03:16 = *03:16, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:11:01, *03:13:01 = *03:11:01, *03:79 = *03:13:01, *03:24 = *03:13:01, *03:47 = *03:47, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:10, *03:13:01 = *03:13:01, *03:51 = *03:13:01, *03:76 = *03:51, *03:79 = *03:76, *03:79
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:06, *03:39 = *03:06, *03:52
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:06, *03:34 = *03:06, *03:46
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:01:01:01, *03:26 = *03:06, *03:33 = *03:06, *03:44 = *03:26, *03:33 = *03:26, *03:44 = *03:26, *03:57 = *03:26, *03:64 = *03:26, *03:69
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:06, *03:30 = *03:06, *03:42
+--+--+--	+--+--+--	+--+--+--	+--+--+--	*03:01:01:01, *03:31 = *03:06, *03:25 = *03:06, *03:28 = *

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101.113-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

+ + + + - - - -	+ + + + - - - -	- + - - - - - -	- - - - - + - -	*03:06, *03:10 = *03:06, *03:51
+ - - + - + - -	+ + + - - - - -	- + - - - - - -	- - - - - + - -	*03:06, *03:13:01 = *03:06, *03:79
+ - - + - + - +	+ - - - - - - -	- + - - - - - -	- - - - - + - +	*03:07, *03:48 = *03:48, *03:49
+ - - + - + - +	+ - - - - - - -	- + - - - - - -	- - - - - + + -	*03:07, *03:50 = *03:49, *03:50
+ - - + - + - +	+ - - - - - - -	- + - - - - - -	- - - - - + + -	*03:01:01:01, *03:40 = *03:07, *03:39 = *03:07, *03:52 = *03:39, *03:40 = *03:39, *03:49 = *03:40, *03:69 = *03:40, *03:77
+ - - + - + - +	+ - - - - - - -	- + - - - - - -	- - - + - + - -	*03:07, *03:36 = *03:36, *03:49
+ - - + - + - +	+ - - - - - - -	- + - - - - - -	- - + - + - - -	*03:07, *03:34 = *03:34, *03:49
+ - - + - + + +	+ - - - - - - -	- + - - - - - -	- + - - - - - -	*03:07, *03:33 = *03:07, *03:44 = *03:33, *03:49
+ - - + - + - +	+ - - - - - - -	- + - - - - - -	+ - - - - + - -	*03:07, *03:32 = *03:32, *03:49
+ - - + - + - +	+ - - - - - - -	- + - - - - - -	- - - - - + - -	*03:07, *03:19 = *03:19, *03:49
+ - - + - + - +	+ - - - - - - -	- + - - - - - -	- - - - - + - -	*03:07, *03:18 = *03:18, *03:49
+ - - + - + - +	+ - - - - - - -	- + - - - - - -	- - - - - + - -	*03:01:01:01, *03:21 = *03:07, *03:30 = *03:07, *03:42 = *03:21, *03:42 = *03:21, *03:69 = *03:21, *03:77 = *03:42, *03:49
+ - - + - + - +	+ - - - - - - -	- + - + - - - -	- - - - - + - -	*03:07, *03:25 = *03:07, *03:28 = *03:28, *03:49
+ - - + - + + +	+ - - - - - - -	- + + - - - - -	- - - - - + - -	*03:07, *03:22 = *03:22, *03:49
+ - - + - + - +	+ - - - - - - -	+ + - - - - - -	- - - - - + - -	*03:07, *03:20 = *03:20, *03:49
+ - - + - + - +	+ - - - - - - +	- + - - - - - -	- - - - - + - -	*03:07, *03:15 = *03:15, *03:49
+ - - + - + - +	+ - - - - - - +	- + - - - - - -	- - - - - + - -	*03:07, *03:37 = *03:37, *03:49
+ - - + - + + +	+ - - - - - - -	- + - - - - - -	- - - - - + - -	*03:07, *03:11:01 = *03:07, *03:47 = *03:11:01, *03:49 = *03:47, *03:49
+ - - + - + - +	+ - - - - - - -	- + - - - - - -	- - - - - + - -	*03:07, *03:51 = *03:07, *03:76 = *03:49, *03:51 = *03:49, *03:76
+ - - + - + - +	+ - - - - - - -	- + - - - - - -	- - - - - + - -	*03:07, *03:13:01 = *03:13:01, *03:49
+ - - + - + + +	+ - - - - - - -	- + - - - - - -	- - - - - + - -	*03:08, *03:39 = *03:08, *03:52
+ - - + - + + -	+ - - - - - - -	- + - - - - - -	- + - - - + - -	*03:08, *03:33 = *03:08, *03:44
+ - - + - + + -	+ - - - - - - -	- + - + - - - -	- - - - - + - -	*03:08, *03:25 = *03:08, *03:28
+ - - + - + + -	+ - - - - - - +	- + - - - - - -	- - - - - + - -	*03:08, *03:11:01 = *03:08, *03:47
+ - - + - + + -	+ - - - - - - -	- + - - - - - -	- - - - - + - -	*03:08, *03:51 = *03:08, *03:76
+ - - + + + - -	+ - - - - - - -	- + - - - - - -	- - + - - + - -	*03:04:01, *03:34 = *03:04:01, *03:46
+ - - + + + - -	+ - - - - - - +	- + - - - - - -	- - - - - + - -	*03:04:01, *03:11:01 = *03:04:01, *03:24 = *03:04:01, *03:47
+ - - + + + - -	+ - - - - - - -	- + - - - - - -	- - - - - + - -	*03:04:01, *03:10 = *03:04:01, *03:51 = *03:04:01, *03:76
+ - - + + + - -	+ - - - - - - -	- + - - - - - -	- - - - - + - -	*03:04:01, *03:13:01 = *03:04:01, *03:79
+ - + + + - - -	+ - - - - - - -	- + - - - - - -	- - + - - + - -	*03:05:01, *03:34 = *03:05:01, *03:46
+ - + + + - - -	+ - - - - - - +	- + - - - - - -	- - - - - + - -	*03:01:01:01, *03:14 = *03:05:01, *03:15 = *03:14, *03:15 = *03:14, *03:64 = *03:14, *03:69 = *03:14, *03:77
+ - + + + - - -	+ - - - - - - -	- + - - - - - -	- - - - - + - -	*03:05:01, *03:11:01 = *03:05:01, *03:47
+ - + + + - - -	+ - - - - - - -	- + - - - - - -	- - - - - + - -	*03:05:01, *03:10 = *03:05:01, *03:51 = *03:05:01, *03:76
+ - + + + - - -	+ - - - - - - -	- + - - - - - -	- - - - - + - -	*03:05:01, *03:13:01 = *03:05:01, *03:79
- + + - + - - -	+ + - + - - - -	- + - - - - - +	- - - - - + - -	*03:05:01, *03:27 = *03:27, *03:57
- + + - + - + -	+ - - - - - - -	- + - - - - - +	- - + - - + - -	*03:05:01, *03:53 = *03:53, *03:57
- + + - + - + -	+ + - - - - - -	- + - - - - - +	- - - - - + - -	*03:02:01, *03:05:01 = *03:02:01, *03:57
- + + + - + - -	- + + - - - - -	- + - - - - - +	- - - - - + - -	*03:07, *03:38 = *03:38, *03:54
+ - - + + - - -	+ - - - - - - -	- + - - - - - -	- - - + + + + -	*03:39, *03:45 = *03:45, *03:52
+ - - + + - - -	+ - - - - - - -	- + - - - - - -	- - + + + + - -	*03:34, *03:45 = *03:45, *03:46
+ - - + + - - -	+ - - - - - - -	- + - - - - - -	- + + + + - - -	*03:33, *03:45 = *03:44, *03:45
+ - - + + - - -	+ - - - - - - -	- + - - - - - -	+ - - + + + - -	*03:32, *03:45 = *03:45, *03:67N = *03:50, *03:67N
+ - - + + - - -	+ - - - - - - -	- + - - - - - -	+ - - + + + - -	*03:39, *03:67N = *03:52, *03:67N
+ - - + + - - -	+ - - - - - - -	- + - - - - - -	+ - + + + - - -	*0

101.113-24/04 – including *Taq* polymerase, IFU-01
101.113-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 90N

Lot-specific information

[illegible]

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

+---+---+	+-----	+---+---	+---+---	*03:07, *03:43 = *03:21, *03:33
+---+---+	+-----	+---+---	+-----	*03:07, *03:68N = *03:49, *03:68N
+---+---+	+-----	+---+---	+-----	*03:11:01, *03:40 = *03:40, *03:47
+---+---+	+-----	+---+---	+-----	*03:11:01, *03:21 = *03:21, *03:47
+---+---+	+-----	+---+---	+-----	*03:07, *03:62 = *03:49, *03:62
+---+---+	+-----	+---+---	+-----	*03:40, *03:51 = *03:40, *03:76
+---+---+	+-----	+---+---	+-----	*03:21, *03:51 = *03:21, *03:76
+---+---+	+-----	+---+---	+-----	*03:07, *03:23 = *03:23, *03:49
+---+---+	+-----	+---+---	+-----	*03:01:01:01, *03:41 = *03:39, *03:41 = *03:41, *03:69
+---+---+	+-----	+---+---	+-----	*03:14, *03:34 = *03:14, *03:46
+---+---+	+-----	+---+---	+-----	*03:11:01, *03:14 = *03:14, *03:47
+---+---+	+-----	+---+---	+-----	*03:10, *03:14 = *03:14, *03:51 = *03:14, *03:76
+---+---+	+-----	+---+---	+-----	*03:01:01:01, *03:09 = *03:05:01, *03:23 = *03:09, *03:13:01 = *03:09, *03:19 = *03:09, *03:23 = *03:09, *03:64 = *03:09, *03:69 = *03:09, *03:77 = *03:09, *03:79
+---+---+	+-----	+---+---	+-----	*03:13:01, *03:14 = *03:14, *03:79
+---+---+	+-----	+---+---	+-----	*03:05:01, *03:38 = *03:38, *03:57
+---+---+	+-----	+---+---	+-----	*03:34, *03:75 = *03:46, *03:75
+---+---+	+-----	+---+---	+-----	*03:12, *03:75 = *03:68N, *03:75
+---+---+	+-----	+---+---	+-----	*03:17, *03:33 = *03:26, *03:62
+---+---+	+-----	+---+---	+-----	*03:17, *03:28 = *03:31, *03:62
+---+---+	+-----	+---+---	+-----	*03:10, *03:75 = *03:51, *03:75
+---+---+	+-----	+---+---	+-----	*03:13:01, *03:75 = *03:75, *03:79
+---+---+	+-----	+---+---	+-----	*03:09, *03:34 = *03:09, *03:46
+---+---+	+-----	+---+---	+-----	*03:09, *03:18 = *03:09, *03:72
+---+---+	+-----	+---+---	+-----	*03:09, *03:15 = *03:14, *03:23
+---+---+	+-----	+---+---	+-----	*03:09, *03:11:01 = *03:09, *03:47
+---+---+	+-----	+---+---	+-----	*03:09, *03:10 = *03:09, *03:51 = *03:09, *03:76
+---+---+	+-----	+---+---	+-----	*03:01:01:01, *03:03 = *03:03, *03:69
+---+---+	+-----	+---+---	+-----	*03:11:01, *03:27 = *03:27, *03:77
+---+---+	+-----	+---+---	+-----	*03:29, *03:46 = *03:46, *03:53 = *03:53, *03:64
+---+---+	+-----	+---+---	+-----	*03:01:01:01, *03:29 = *03:29, *03:69 = *03:29, *03:77
+---+---+	+-----	+---+---	+-----	*03:02:01, *03:09 = *03:09, *03:38
+---+---+	+-----	+---+---	+-----	*03:03, *03:39 = *03:03, *03:52
+---+---+	+-----	+---+---	+-----	*03:03, *03:33 = *03:03, *03:44
+---+---+	+-----	+---+---	+-----	*03:03, *03:30 = *03:03, *03:42
+---+---+	+-----	+---+---	+-----	*03:03, *03:25 = *03:03, *03:28
+---+---+	+-----	+---+---	+-----	*03:01:01:01, *03:27 = *03:27, *03:47 = *03:27, *03:69
+---+---+	+-----	+---+---	+-----	*03:02:01, *03:79 = *03:38, *03:64 = *03:38, *03:79
+---+---+	+-----	+---+---	+-----	*03:01:01:01, *03:53 = *03:29, *03:34 = *03:34, *03:53 = *03:53, *03:69
+---+---+	+-----	+---+---	+-----	*03:11:01, *03:29 = *03:29, *03:47
+---+---+	+-----	+---+---	+-----	*03:29, *03:51 = *03:29, *03:76
+---+---+	+-----	+---+---	+-----	*03:01:01:01, *03:02:01 = *03:02:01, *03:69
+---+---+	+-----	+---+---	+-----	*03:27, *03:37 = *03:27, *03:62
+---+---+	+-----	+---+---	+-----	*03:01:01:01, *03:38 = *03:02:01, *03:13:01 = *03:13:01, *03:38 = *03:38, *03:69
+---+---+	+-----	+---+---	+-----	*03:02:01, *03:23 = *03:19, *03:38 = *03:23, *03:38

*03:01:01:01 = *03:01:01:01-03:01:19 and 03:55-03:56, 03:58-03:59, 03:61, 03:66, 03:70, 03:73, 03:78

*03:02:01 = *03:02:01-03:02:02 and 03:74

*03:04:01 = *03:04:01-03:04:02

*03:05:01 = *03:05:01-03:05:03

*03:06 = *03:06 and 03:60

*03:08 = *03:08, 03:65

*03:13:01 = *03:13:01-03:13:02

*03:33 = *03:33 and 03:71

*03:57 = *03:57 and 03:63

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

SPECIFICITY TABLE

DRB1*03 SSP subtyping

Specificities and sizes of the PCR products of the 32 primer mixes used for DRB1*03 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified DRB1*03 alleles ³	Other amplified DRB alleles ⁴
1	220 bp	515 bp	*03:01:01:01- 03:01:19, 03:04:01- 03:04:02, 03:06, 03:08, 03:10- 03:13:02, 03:15, 03:16 [?] , 03:18-03:20, 03:22-03:23, 03:25- 03:26, 03:28, 03:30- 03:34, 03:36-03:37, 03:39, 03:42-03:48, 03:50-03:52, 03:55- 03:56, 03:58-03:62, 03:64-03:73, 03:75- 03:81	*09:06, 11:59, 11:83, 13:27, 13:71, 13:129, 14:82, 14:95
2⁵	85 bp	430 bp	*03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74	*13:15, 13:19, 13:26, 13:53, 13:57, 13:85-13:86, 13:104, 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, 14:102, 14:106, 14:108-14:109, 14:115
3	190 bp	515 bp	*03:02:01-03:02:02, 03:05:01-03:05:03, 03:09, 03:14, 03:27, 03:29, 03:38, 03:53, 03:74, 03:81	*11:09, 11:20, 11:28:02, 11:87, 11:122, 13:02:01-13:02:03, 13:02:05, 13:05:01-13:05:02, 13:26, 13:29, 13:31, 13:34, 13:36, 13:39, 13:41, 13:50:02, 13:56, 13:63, 13:65, 13:67, 13:73-13:74, 13:85, 13:96:01-13:96:02, 13:99, 13:103-13:104, 13:119-13:120, 13:123-13:124, 13:126, 13:128, 13:136, 13:139, 14:02-14:03:02, 14:09, 14:13, 14:19, 14:24, 14:27, 14:30, 14:46-14:48, 14:51, 14:63,

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

				14:67, 14:85, 14:89, 14:98, 14:109, 14:115, 16:08, DRB3*01:08, DRB3*02:06, DRB3*02:20
4	190 bp	430 bp	*03:01:01:01- 03:01:19, 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- 03:81	*11:16, 11:40, 11:58:01, 11:59, 11:83, 11:113, 11:115, 13:01:01- 13:01:11, 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, 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, 15:32
5⁵	75 bp	430 bp	*03:04:01-03:04:02	
6^{5,6}	105 bp	430 bp	*03:01:01:01- 03:01:19, 03:04:01- 03:05:03, 03:08- 03:15, 03:16 ^w , 03:18- 03:20, 03:22-03:23, 03:25, 03:28, 03:30, 03:32-03:34, 03:36- 03:37, 03:39, 03:42- 03:48, 03:50-03:52, 03:55-03:59, 03:61- 03:73, 03:76-03:79, 03:81	*11:59, 11:80, 11:87, 13:27, 13:41, 13:71, 13:129, 14:95
7	135 bp	430 bp	*03:08, 03:65	*11:59, 11:80, 11:83, 11:87
8	185 bp	430 bp	*03:02:01-03:03, 03:07, 03:21, 03:29, 03:38, 03:40-03:41, 03:49, 03:53, 03:74	*01:16, 04:22, 11:07, 11:103, 11:107, 11:125, 14:76, 14:79, 15:25, DRB3*01:09, DRB3*02:04, DRB3*02:19, DRB3*02:22, DRB3*03:03
9	135 bp	430 bp	*03:01:01:01- 03:01:19, 03:04:01- 03:06, 03:09, 03:11, 03:13:01 ^w -03:13:02 ^w , 03:14-03:16, 03:18- 03:20, 03:22-03:23, 03:25-03:26, 03:28,	*09:01:08-09:02:02, 13:27, 13:41, 13:71, 13:129, 14:95, DRB3*01:07, DRB3*01:15

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

			03:30-03:34, 03:36-03:37, 03:39, 03:42-03:45, 03:47- 03:48, 03:50-03:52, 03:55-03:63, 03:66, 03:67N ^w , 03:68N- 03:73, 03:75-03:78, 03:80-03:81	
10	145 bp	430 bp	*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, 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, 14:01:01-14:03:01, 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, DRB3*01:14
11^{5,8}	105 bp, 180 bp	515 bp	*03:09, 03:13:01- 03:13:02, 03:23, 03:38, 03:79	*11:116, 11:120, 13:39, 13:54, 13:77-13:79, 13:100, 14:48, 14:64, 14:109, 14:115, DRB3*01:14
12⁹	135 bp, 190 bp	430 bp	*03:10, 03:51, 03:76	*11:59 ^w , 11:80 ^w , 11:83 ^w , 11:87 ^w , 13:27 ^w , 13:41 ^w , 13:71 ^w , 13:129 ^w , 14:82
13¹⁰	165 bp, 225 bp	430 bp	*03:11, 03:17, 03:24, 03:27, 03:35, 03:47, 03:62, 03:81	*14:38
14^{5,11}	105 bp, 135 bp, 245 bp	515 bp	*03:12, 03:16, 03:68N	*09:08
15	155 bp	430 bp	*03:17, 03:37, 03:62, 03:80	*11:39, 11:43, 11:50, 11:115, 13:118, 13:131, 13:135, 14:59, 14:86, 14:96

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

16	195 bp	430 bp	*03:14-03:15	*09:05, 11:59, 11:80, 11:83, 11:87, 13:27, 13:41, 13:71, 13:129
17	255 bp	515 bp	*03:20	*11:06:01-11:06:02, 11:21, 11:47, 11:57, 13:58, 13:81, 14:29, 14:99
18⁵	120 bp	430 bp	*03:01:01:01-03:01:19, 03:04:01-03:05:03, 03:07-03:10, 03:12-03:16, 03:18-03:23, 03:25, 03:28-03:30, 03:32-03:34, 03:36-03:37, 03:39-03:40, 03:42-03:52, 03:54-03:59, 03:61-03:73, 03:78-03:79	*11:07, 11:103, 11:105, 11:125, 15:25
19	175 bp	515 bp	*03:22	
20^{5,12}	75 bp, 120 bp, 245 bp	430 bp	*03:25, 03:28, 03:31, 03:68N, 03:75	*11:80
21^{5,13}	70 bp, 150 bp	430 bp	*03:21, 03:30, 03:42-03:43	*11:10:01-11:10:02, 11:12:01-11:13:02, 11:30, 11:114, 12:05, 12:14-12:15, 13:57, 13:64, 13:67, 13:83, 13:107, 14:35, 14:65, 14:72
22^{5,6,14}	95 bp, 125 bp	430 bp	*03:18, 03:72	
23^{5,6,15}	65 bp, 125 bp, 165 bp	430 bp	*03:09, 03:19, 03:23, 03:72	
24⁵	65 bp	430 bp	*03:02:01-03:03, 03:27, 03:29, 03:38, 03:53, 03:74	*13:15, 13:26, 13:53, 13:85, 13:104, 14:02-14:03:02, 14:06:01-14:06:02, 14:12:01-14:13, 14:18-14:19, 14:24, 14:27, 14:29, 14:46-14:48, 14:51-14:52, 14:63, 14:67, 14:78, 14:81, 14:85, 14:89, 14:98, 14:106, 14:108-14:109, 14:115, 14:121, DRB3*02:20
25¹⁶	75 bp, 180 bp	430 bp	*03:32, 03:67N	
26^{5,7}	115 bp	515 bp	*03:26, 03:33, 03:43-03:44, 03:71	*11:44, 11:49:01-11:50, 11:76, 11:85, 11:114, 13:34, 13:64, 13:106, 13:136, 14:41, 14:77, 14:97, 14:110, DRB3*01:14
27¹⁷	150 bp, 175 bp, 230 bp	515 bp	*03:34, 03:46, 03:53	

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 90N		Lot-specific information		
28 ^{5,18}	75 bp, 160 bp, 195 bp	430 bp	*03:36, 03:45, 03:67N	
29 ¹⁹	155 bp, 180 bp	430 bp	*03:39-03:41, 03:52, 03:75	*11:07, 11:103, 11:105, 11:107, 11:125
30	175 bp	430 bp	*03:01:01:01-03:07, 03:09, 03:11-03:41, 03:43-03:45, 03:47- 03:63, 03:66-03:68N, 03:70-03:81	*08:20, 13:01:01-13:16, 13:18- 13:42, 13:44, 13:46-13:66:02, 13:68-13:102, 13:104-13:115, 13:117-13:121, 13:123-13:139, 14:02-14:03:02, 14:05:01-14:06:02, 14:09, 14:12:01-14:14, 14:17- 14:21, 14:23:01, 14:23:03-14:24, 14:27, 14:29-14:30, 14:33, 14:36- 14:37, 14:40-14:45, 14:47-14:48, 14:51, 14:56, 14:59, 14:63-14:65, 14:67, 14:77-14:78, 14:80-14:81, 14:83-14:85, 14:89, 14:91, 14:94- 14:96, 14:98, 14:100, 14:102- 14:103, 14:106, 14:108-14:109, 14:115-14:116, 14:121, 14:123
31 ²⁰	195 bp, 245 bp	515 bp	*03:45, 03:50	
32	215 bp	430 bp	*03:48	

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*03 SSP subtypings.

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

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

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

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

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

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*03 subtyping.

In addition, wells number 3, 11, 14, 17, 19, 26, 27 and 31 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 DRB alleles only partial second exon nucleotide sequences are available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the

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target sequences or not. We assume that unknown sequences in the first hyperpolymorphic region of the second exon of DRB alleles are conserved within allelic groups and that unknown sequences of codons 87 to 92 are identical with the DRB1*01:01 consensus sequence.

⁴Due to the sharing of sequence motifs within the DR52 group of DRB1 alleles, non-DRB1*03 alleles are amplified by primer mixes 1 to 4, 6 to 18, 20, 21, 24, 26, 29 and 30.

In addition, primer mix 3 will amplify the DRB3*01:08, DRB3*02:06 and DRB3*02:20 alleles, primer mix 8 will amplify the DRB3*01:09, DRB3*02:04, DRB3*02:19, DRB3*02:22 and DRB3*03:03 alleles, primer mix 9 will amplify the DRB3*01:07 allele, primer mix 24 will amplify the DRB3*02:20 allele and the DRB3*01:14 allele will be amplified by primer mixes 10, 11 and 26.

⁵Specific PCR fragments shorter than 125 base pairs have a lower intensity than longer PCR bands.

⁶Primer mix 6, 22 and 23 may have a tendency of giving rise to primer oligomer formation.

⁷Primer mix 26 may have a tendency of giving rise to non specific amplifications.

⁸Primer mix 11: Specific PCR fragment of 105 bp in the DRB1*03:09 and 03:23 alleles. Specific PCR fragment of 180 bp in the DRB1*03:13:01-03:13:02, 03:38 and 03:79 and the DRB1*11:116, 11:120, 13:39, 13:54, 13:77-13:79, 13:100, 14:48, 14:64, 14:109 and 14:115 and in the DRB3*01:14 alleles.

⁹Primer mix 12: Specific PCR fragment of 135 bp in the DRB1*03:10 and the DRB1*14:82 alleles. Specific PCR fragment of 190 bp in the DRB1*03:51 and 03:76 and the DRB1*11:59^w, 11:80^w, 11:83^w, 11:87^w, 13:27^w, 13:41^w, 13:71^w and 13:129^w alleles.

¹⁰Primer mix 13: Specific PCR fragment of 165 bp in the DRB1*03:47 and 03:62 alleles. Specific PCR fragment of 225 bp in the DRB1*03:11, 03:17, 03:24, 03:27 and 03:35, 03:81 and the DRB1*14:38 alleles.

¹¹Primer mix 14: Specific PCR fragment of 105 bp in the DRB1*03:16 allele. Specific PCR fragment of 135 bp in the DRB1*03:12 and the DRB1*09:08 alleles. Specific PCR fragment of 245 bp in the DRB1*03:68N allele.

¹²Primer mix 20: Specific PCR fragment of 75 bp in the DRB1*03:25, 03:31 and 03:75 and the DRB1*11:80 alleles. Specific PCR fragment of 120 bp in the DRB1*03:28 allele. Specific PCR fragment of 245 bp in the DRB1*03:68N allele.

¹³Primer mix 21: Specific PCR fragment of 70 bp in the DRB1*03:21, 03:30 and 03:42-03:43 and the DRB1*11:10:01-11:10:02, 11:12:01-11:13:02, 11:30, 11:114, 12:05, 12:14-12:15, 13:57, 13:64, 13:67, 13:83, 13:107, 14:35, 14:65 and 14:72 alleles. Specific PCR fragment of 150 bp in the DRB1*03:42 and the DRB1*11:30 and 13:67 alleles.

¹⁴Primer mix 22: Specific PCR fragment of 95 bp in the DRB1*03:18 allele. Specific PCR fragment of 125 bp in the DRB1*03:72 allele.

¹⁵Primer mix 23: Specific PCR fragment of 65 bp in the DRB1*03:09 and 03:23 alleles. Specific PCR fragment of 125 bp in the DRB1*03:72 allele. Specific PCR fragment of 165 bp in the DRB1*03:19 allele.

¹⁶Primer mix 25: Specific PCR fragment of 75 bp in the DRB1*03:67N allele. Specific PCR fragment of 180 bp in the DRB1*03:32 allele.

¹⁷Primer mix 27: Specific PCR fragment of 150 bp in the DRB1*03:53 allele. Specific PCR fragment of 175 bp in the DRB1*03:46 allele. Specific PCR fragment of 230 bp in the DRB1*03:34 allele.

¹⁸Primer mix 28: Specific PCR fragment of 75 bp in the DRB1*03:67N allele. Specific PCR fragment of 160 bp in the DRB1*03:36 allele. Specific PCR fragment of 195 bp in the DRB1*03:45 allele.

¹⁹Primer mix 29: Specific PCR fragment of 155 bp in the DRB1*03:40-03:41, 03:52 and 03:75 and the DRB1*11:07, 11:103, 11:105, 11:107 and 11:125 alleles. Specific PCR fragment of 180 bp in the DRB1*03:39 allele.

²⁰Primer mix 31: Specific PCR fragment of 195 bp in the DRB1*03:45 allele. Specific PCR fragment of 245 bp in the DRB1*03:50 allele.

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

“w”, may be weakly amplified.

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Lot-specific information

INTERPRETATION TABLE																
DRB1*03 SSP subtyping																
Amplification patterns of the DRB1*03:01 to *03:81 alleles																
	Well⁷															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Length of spec. PCR product(s)	220	85	190	190	75	105	135	185	135	145	105	135	165	105	155	195
											180	190	225	135		
														245		
Length of int. pos. control¹	515	430	515	430	430	430	430	430	430	430	515	430	430	515	430	430
5'-primer²	26(164)	13(125)	36(196)	36(196)	26(164)	26(164)	26(164)	26(164)	26(164)	13(125)	13(125)	26(164)	13(125)	26(164)	13(125)	26(164)
	5' -gTA 3'	5' -gTC 3'	5' -AgA 3'	5' -AgA 3'	5' -gTA 3'	5' -gTA 3'	5' -gTA 3'	5' -gTT 3'	5' -gTA 3'	5' -gTC 3'	5' -gTC 3'	5' -gTA 3'	5' -gTC 3'	5' -gTA 3'	5' -gTC 3'	5' -gTA 3'
3'-primer(s)³	86(344)	28(171)	86(344)	86(344)	37(197)	47(227)	58(260)	74(308)	57(257)	47(227)	34(188)	57(257)	51(241)	47(229)	51(239)	77(317)
	5' -CCA 3'	5' -CTC 3'	5' -CAC 3'	5' -CCA 3'	5' -Cgg 3'	5' -gga 3'	5' -CCT 3'	5' -CCC 3'	5' -CAT 3'	5' -ggT 3'	5' -CCC 3'	5' -CAG 3'	5' -CTg 3'	5' -CCA 3'	5' -CCC 3'	5' -Agg 3'
									5' -gCg 3'		5' -Agg 3'	5' -CCg 3'	5' -CAC 3'	5' -gCT 3'	5' -CTg 3'	
												5' -CTC 3'	5' -CCT 3'	5' -TCA 3'		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DRB1 allele^{4,5}																

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Lot-specific information

INTERPRETATION TABLE															
DRB1*03 SSP subtyping															
Amplification patterns of the DRB1*03:01 to *03:81 alleles															
Well ⁷															
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
255	120	175	75	70	95	65	65	75	115	150	75	155	175	195	215
			120	150	125	125		180		175	160	180		245	
			245			165				230	195				
515	430	515	430	430	430	430	430	430	515	515	430	430	430	515	430
13(125)	47(227)	31(181)	26(164)	10(116)	26(164)	26(164)	28(171)	26(166)	13(125)	13(125)	21(149)	27(167)	13(125)	5(103)	26(164)
5'-gTC 3'	5'-gTT 3'	5'-TCg 3'	5'-gTA 3'	5'-gCT 3'	5'-gTA 3'	5'-gTA 3'	5'-gAg 3'	5'-ACg 3'	5'-gTC 3'	5'-gTC 3'	5'-gAT 3'	5'-CCg 3'	5'-gTC 3'	5'-CAG 3'	5'-gTA 3'
	47(227)			37(197)				61(269)			33(186)	34(189)		21(149)	
	5'-ATT 3'			5'-gTT 3'				5'-CTA 3'			5'-AAA 3'	5'-CAA 3'		5'-gAT 3'	
				37(197)							61(269)				
				5'-gTT 3'							5'-CTA 3'				
85(341)	73(305)	77(317)	36(196)	47(227)	44(220)	34(188)	36(196)	73(305)	37(199)	48(232)	73(305)	73(305)	58(260)	73(305)	84(340)
5'-CAG 3'	5'-ggC 3'	5'-AgT 3'	5'-gTA 3'	5'-ggA 3'	5'-CCg 3'	5'-CCC 3'	5'-gTT 3'	5'-ggC 3'	5'-CAG 3'	5'-Cgg 3'	5'-ggC 3'	5'-ggC 3'	5'-Cgg 3'	5'-ggC 3'	5'-AAT 3'
			51(241)		53(247)	53(247)			38(200)	58(260)			58(260)		
			5'-CTT 3'		5'-CCg 3'	5'-CCg 3'			5'-gCg 3'	5'-CgC 3'			5'-CAG 3'		
			93(367)			66(286)				75(313)					
			5'-TCA 3'			5'-gAT 3'				5'-gTT 3'					
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Well No.															
DRB1 allele ^{4,5}															

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Lot-specific information

Length of spec.	220	85	190	190	75	105	135	185	135	145	105	135	165	105	155	195
PCR product(s)											180	190	225	135		
														245		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DRB1 allele ^{4,5}																
*03:01:01:01- 03:01:19, 03:55-03:56, 03:58- 03:59, 03:61, 03:66, 03:70, 03:73, 03:78	1			4		6			9							
*03:02:01-03:02:02, 03:74		2	3					8		10						
*03:03		2		4				8		10						
*03:04:01-03:04:02	1				5	6			9							
*03:05:01-03:05:03			3			6			9							
*03:06, 03:60	1			4					9	10						
*03:07				4				8								
*03:08, 03:65	1			4		6	7									
*03:09			3			6			9		11					
*03:10	1			4		6						12				
*03:11	1			4		6			9				13			
*03:12	1			4		6								14		
*03:13:01-03:13:02	1			4		6			w		11					
*03:14			3			6			9							16
*03:15	1			4		6			9							16
*03:16	?			?		w			9					14		
*03:17										10			13		15	
*03:18	1			4		6			9							
*03:19	1			4		6			9							
*03:20	1			4		6			9							
*03:21								8								
*03:22	1			4		6			9							
*03:23	1			4		6			9		11					
*03:24				4									13			
*03:25	1					6			9							
*03:26	1			4					9	10						
*03:27		2	3							10			13			
*03:28	1			4		6			9							
*03:29		2	3					8								
*03:30	1					6			9							
*03:31	1								9	10						
*03:32	1			4		6			9							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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Lot-specific information

255	120	175	75	70	95	65	65	75	115	150	75	155	175	195	215	Length of spec. PCR product(s)
			120	150	125	125		180		175	160	180		245		
			245			165				230	195					
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
																DRB1 allele ^{4,5}
	18												30			*03:01:01-03:01:19, 03:55-03:56, 03:58-03:59, 03:61, 03:66, 03:70, 03:73, 03:78
							24						30			*03:02:01-03:02:02, 03:74
							24						30			*03:03
	18												30			*03:04:01-03:04:02
	18												30			*03:05:01-03:05:03
													30			*03:06, 03:60
	18												30			*03:07
	18															*03:08, 03:65
	18					23							30			*03:09
	18															*03:10
													30			*03:11
	18												30			*03:12
	18												30			*03:13:01-03:13:02
	18												30			*03:14
	18												30			*03:15
	18												30			*03:16
													30			*03:17
	18				22								30			*03:18
	18					23							30			*03:19
17	18												30			*03:20
	18			21									30			*03:21
	18	19											30			*03:22
	18					23							30			*03:23
													30			*03:24
	18		20										30			*03:25
									26				30			*03:26
							24						30			*03:27
	18		20										30			*03:28
	18						24						30			*03:29
	18			21									30			*03:30
			20										30			*03:31
	18							25					30			*03:32
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific information

Length of spec.	220	85	190	190	75	105	135	185	135	145	105	135	165	105	155	195
PCR product(s)											180	190	225	135		
														245		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DRB1 allele ⁴																
*03:01:01:01- 03:01:19, 03:55-03:56, 03:58- 03:59, 03:61, 03:66, 03:70, 03:73, 03:78	1			4		6			9							
*03:02:01-03:02:02, 03:74		2	3					8		10						
*03:03		2		4				8		10						
*03:04:01-03:04:02	1				5	6			9							
*03:05:01-03:05:03			3			6			9							
*03:06, 03:60	1			4					9	10						
*03:07				4				8								
*03:08, 03:65	1			4		6	7									
*03:09			3			6			9		11					
*03:10	1			4		6						12				
*03:11	1			4		6			9				13			
*03:12	1			4		6								14		
*03:13:01-03:13:02	1			4		6			w		11					
*03:14			3			6			9							16
*03:15	1			4		6			9							16
*03:16	?			?		w			9					14		
*03:17										10			13		15	
*03:18	1			4		6			9							
*03:19	1			4		6			9							
*03:20	1			4		6			9							
*03:21								8								
*03:22	1			4		6			9							
*03:23	1			4		6			9		11					
*03:24				4									13			
*03:25	1					6			9							
*03:26	1			4					9	10						
*03:27		2	3							10			13			
*03:28	1			4		6			9							
*03:29		2	3					8								
*03:30	1					6			9							
*03:31	1								9	10						
*03:32	1			4		6			9							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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255	120	175	75	70	95	65	65	75	115	150	75	155	175	195	215	Length of spec. PCR product(s)
			120	150	125	125		180		175	160	180		245		
			245			165				230	195					
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
																DRB1 allele ⁴
	18												30			*03:01:01-03:01:19, 03:55-03:56, 03:58-03:59, 03:61, 03:66, 03:70, 03:73, 03:78
							24						30			*03:02:01-03:02:02, 03:74
							24						30			*03:03
	18												30			*03:04:01-03:04:02
	18												30			*03:05:01-03:05:03
													30			*03:06, 03:60
	18												30			*03:07
	18															*03:08, 03:65
	18					23							30			*03:09
	18															*03:10
													30			*03:11
	18												30			*03:12
	18												30			*03:13:01-03:13:02
	18												30			*03:14
	18												30			*03:15
	18												30			*03:16
													30			*03:17
	18				22								30			*03:18
	18					23							30			*03:19
17	18												30			*03:20
	18			21									30			*03:21
	18	19											30			*03:22
	18					23							30			*03:23
													30			*03:24
	18		20										30			*03:25
									26				30			*03:26
							24						30			*03:27
	18		20										30			*03:28
	18						24						30			*03:29
	18			21									30			*03:30
			20										30			*03:31
	18							25					30			*03:32
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

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Lot-specific information

Length of spec. PCR product(s)	220	85	190	190	75	105	135	185	135	145	105	135	165	105	155	195
											180	190	225	135		
														245		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*03:33, 03:71	1			4		6			9							
*03:34	1			4		6			9							
*03:35										10			13			
*03:36	1			4		6			9							
*03:37	1			4		6			9						15	
*03:38		2	3					8		10	11					
*03:39	1			4		6			9							
*03:40								8								
*03:41								8		10						
*03:42	1			4		6			9							
*03:43	1					6			9							
*03:44	1					6			9							
*03:45	1			4		6			9							
*03:46	1			4		6										
*03:47	1			4		6			9				13			
*03:48	1			4		6			9							
*03:49								8								
*03:50	1			4		6			9							
*03:51	1			4		6			9			12				
*03:52	1					6			9							
*03:53		2	3					8								
*03:54				4												
*03:57, 03:63						6			9							
*03:62	1			4		6			9				13		15	
*03:64	1			4		6										
*03:67N	1			4		6			w							
*03:68N	1			4		6			9					14		
*03:69	1			4		6			9							
*03:72	1			4		6			9							
*03:75	1								9	10						
*03:76	1			4		6			9			12				
*03:77, 14:95 ⁶	1			4		6			9							
*03:79	1			4		6					11					
*03:80	1			4					9	10					15	
*03:81	1		3	4		6			9				13			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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Lot-specific information

255	120	175	75	70	95	65	65	75	115	150	75	155	175	195	215	Length of spec. PCR product(s)
			120	150	125	125		180		175	160	180		245		
			245			165				230	195					
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
	18								26				30			*03:33, 03:71
	18									27			30			*03:34
													30			*03:35
	18										28		30			*03:36
	18												30			*03:37
							24						30			*03:38
	18											29	30			*03:39
	18											29	30			*03:40
												29	30			*03:41
	18			21												*03:42
	18			21					26				30			*03:43
	18								26				30			*03:44
	18										28		30	31		*03:45
	18									27						*03:46
	18												30			*03:47
	18												30		32	*03:48
	18												30			*03:49
	18												30	31		*03:50
	18												30			*03:51
	18											29	30			*03:52
							24			27			30			*03:53
	18												30			*03:54
	18												30			*03:57, 03:63
	18												30			*03:62
	18															*03:64
	18							25			28		30			*03:67N
	18		20										30			*03:68N
	18															*03:69
	18				22	23							30			*03:72
			20									29	30			*03:75
													30			*03:76
													30			*03:77, 14:95 ⁶
	18												30			*03:79
													30			*03:80
													30			*03:81
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **90N**

Lot-specific information

Length of spec.	220	85	190	190	75	105	135	185	135	145	105	135	165	105	155	195
PCR product(s)											180	190	225	135		
														245		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*01:16, 04:22, 14:76, 14:79, <i>DRB3*01:09</i> , <i>DRB3*02:04</i> , <i>DRB3*02:19</i> , <i>DRB3*02:22</i> , <i>DRB3*03:03</i>								8								
*08:20, 13:03:01- 13:03:06, 13:07:01- 13:08, 13:12:01- 13:13, 13:33:01- 13:33:03, 13:37- 13:38, 13:47-13:49, 13:55, 13:60, 13:70, 13:72, 13:76, 13:84, 13:88-13:90, 13:94- 13:95, 13:101, 13:108, 13:115, 13:133-13:134, 14:05:01-14:05:03, 14:14, 14:23:01, 14:23:03, 14:36- 14:37, 14:43-14:45, 14:56, 14:84, 14:91, 14:100, 14:103, 14:116, 14:123										10						
*09:01:08-09:02:02, <i>DRB3*01:07</i> , <i>DRB3*01:15</i>									9							
*09:05																16
*09:06	1															
*09:08														14		
*11:06:01-11:06:02, 11:21, 11:47, 11:57																
*11:07, 11:103, 11:125								8								
*11:09, 11:20, 11:28:02, 11:122, 13:103, 16:08, <i>DRB3*01:08</i> , <i>DRB3*02:06</i>			3													
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **90N**

Lot-specific information

255	120	175	75	70	95	65	65	75	115	150	75	155	175	195	215	Length of spec. PCR product(s)
			120	150	125	125		180		175	160	180		245		
			245			165				230	195					
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
																*01:16, 04:22, 14:76, 14:79, <i>DRB3</i> *01:09, <i>DRB3</i> *02:04, <i>DRB3</i> *02:19, <i>DRB3</i> *02:22, <i>DRB3</i> *03:03
													30			*08:20, 13:03:01- 13:03:06, 13:07:01- 13:08, 13:12:01- 13:13, 13:33:01- 13:33:03, 13:37- 13:38, 13:47-13:49, 13:55, 13:60, 13:70, 13:72, 13:76, 13:84, 13:88-13:90, 13:94- 13:95, 13:101, 13:108, 13:115, 13:133-13:134, 14:05:01-14:05:03, 14:14, 14:23:01, 14:23:03, 14:36- 14:37, 14:43-14:45, 14:56, 14:84, 14:91, 14:100, 14:103, 14:116, 14:123
																*09:01:08-09:02:02, <i>DRB3</i> *01:07, <i>DRB3</i> *01:15
																*09:05
																*09:06
																*09:08
17																*11:06:01-11:06:02, 11:21, 11:47, 11:57
	18											29				*11:07, 11:103, 11:125
																*11:09, 11:20, 11:28:02, 11:122, 13:103, 16:08, <i>DRB3</i> *01:08, <i>DRB3</i> *02:06
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **90N**

Lot-specific information

Length of spec.	220	85	190	190	75	105	135	185	135	145	105	135	165	105	155	195
PCR product(s)											180	190	225	135		
														245		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*11:10:01-11:10:02, 11:12:01-11:13:02, 11:30, 12:05, 12:14- 12:15, 14:35, 14:72																
*11:16, 11:40, 11:58:01, 11:113, 13:43, 15:32				4												
*11:17, 11:37:01- 11:37:02, 11:41, 11:48, 11:52, 11:56, 13:122, 14:01:01- 14:01:03, 14:07:01- 14:08, 14:16, 14:22, 14:23:02, 14:25- 14:26, 14:32:01- 14:32:02, 14:34, 14:39, 14:54:01- 14:55, 14:58, 14:60, 14:62, 14:69-14:70, 14:74-14:75, 14:87- 14:88, 14:90, 14:92N, 14:101, 14:104- 14:105, 14:111- 14:114, 14:117- 14:119, 14:122, 14:124-14:125										10						
*11:39, 11:43															15	
*11:44, 11:49:01- 11:49:02, 11:76, 11:85																
*11:50										10					15	
*11:59	1			4		6	7					w				16
*11:80						6	7					w				16
*11:83	1			4			7			10		w				16
*11:87			3			6	7					w				16
*11:105																
*11:107								8		10						
*11:114																
*11:115				4											15	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **90N**

Lot-specific information

255	120	175	75	70	95	65	65	75	115	150	75	155	175	195	215	Length of spec.
			120	150	125	125		180		175	160	180		245		PCR product(s)
			245			165				230	195					
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
				21												*11:10:01-11:10:02, 11:12:01-11:13:02, 11:30, 12:05, 12:14- 12:15, 14:35, 14:72
																*11:16, 11:40, 11:58:01, 11:113, 13:43, 15:32
																*11:17, 11:37:01- 11:37:02, 11:41, 11:48, 11:52, 11:56, 13:122, 14:01:01- 14:01:03, 14:07:01- 14:08, 14:16, 14:22, 14:23:02, 14:25- 14:26, 14:32:01- 14:32:02, 14:34, 14:39, 14:54:01- 14:55, 14:58, 14:60, 14:62, 14:69-14:70, 14:74-14:75, 14:87- 14:88, 14:90, 14:92N, 14:101, 14:104- 14:105, 14:111- 14:114, 14:117- 14:119, 14:122, 14:124-14:125
																*11:39, 11:43
								26								*11:44, 11:49:01- 11:49:02, 11:76, 11:85
								26								*11:50
																*11:59
			20													*11:80
																*11:83
																*11:87
	18											29				*11:105
												29				*11:107
				21				26								*11:114
																*11:115
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **90N**

Lot-specific information

Length of spec.	220	85	190	190	75	105	135	185	135	145	105	135	165	105	155	195
PCR product(s)											180	190	225	135		
														245		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*11:116, 11:120											11					
*13:01:01-13:01:11, 13:06, 13:09-13:10, 13:18, 13:20, 13:28, 13:35, 13:42, 13:51, 13:59, 13:61:01- 13:61:02, 13:69, 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, 13:130, 13:137N-13:138, 14:17, 14:21, 14:33				4												
*13:02:01-13:02:03, 13:02:05, 13:05:01- 13:05:02, 13:29, 13:31, 13:50:02, 13:56, 13:63, 13:73- 13:74, 13:96:01- 13:96:02, 13:99, 13:119, 13:123- 13:124, 13:126, 13:128, 13:139, 14:30			3													
*13:02:04, 13:04, 13:11:01-13:11:02, 13:14:01-13:14:03, 13:16, 13:21:01- 13:25, 13:30, 13:44, 13:46, 13:50:01, 13:52, 13:62, 13:66:01-13:66:02, 13:68, 13:75, 13:82, 13:97, 13:109, 13:132, 14:42																
*13:15		2		4												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **90N**

Lot-specific information

255	120	175	75	70	95	65	65	75	115	150	75	155	175	195	215	Length of spec.
			120	150	125	125		180		175	160	180		245		PCR product(s)
			245			165				230	195					
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
																*11:116, 11:120
													30			*13:01:01-13:01:11, 13:06, 13:09-13:10, 13:18, 13:20, 13:28, 13:35, 13:42, 13:51, 13:59, 13:61:01- 13:61:02, 13:69, 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, 13:130, 13:137N-13:138, 14:17, 14:21, 14:33
													30			*13:02:01-13:02:03, 13:02:05, 13:05:01- 13:05:02, 13:29, 13:31, 13:50:02, 13:56, 13:63, 13:73- 13:74, 13:96:01- 13:96:02, 13:99, 13:119, 13:123- 13:124, 13:126, 13:128, 13:139, 14:30
													30			*13:02:04, 13:04, 13:11:01-13:11:02, 13:14:01-13:14:03, 13:16, 13:21:01- 13:25, 13:30, 13:44, 13:46, 13:50:01, 13:52, 13:62, 13:66:01-13:66:02, 13:68, 13:75, 13:82, 13:97, 13:109, 13:132, 14:42
							24						30			*13:15
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **90N**

Lot-specific information

Length of spec.	220	85	190	190	75	105	135	185	135	145	105	135	165	105	155	195
PCR product(s)											180	190	225	135		
														245		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*13:19, 14:20, 14:40, 14:94, 14:102		2								10						
*13:26, 13:85, 14:02- 14:03:01, 14:13, 14:19, 14:24, 14:27, 14:47, 14:51, 14:63, 14:67, 14:85, 14:89, 14:98		2	3							10						
*13:27, 13:71, 13:129	1			4		6			9			w				16
*13:32, 13:40, 14:80				4						10						
*13:34, 13:136			3													
*13:36, 13:65, 13:120, 14:09			3							10						
*13:39			3								11					
*13:41			3			6			9			w				16
*13:53, 14:06:01- 14:06:02, 14:12:01- 14:12:02, 14:18, 14:78, 14:81, 14:106, 14:108		2		4						10						
*13:54, 13:100											11					
*13:57		2														
*13:58, 13:81										10						
*13:64																
*13:67			3													
*13:77-13:79, 14:64				4							11					
*13:83, 13:107, 14:65																
*13:86		2														
*13:104, 14:03:02		2	3													
*13:106																
*13:118, 13:135, 14:96										10					15	
*13:131				4											15	
*14:29		2		4						10						
*14:38										10			13			
*14:41, 14:77		2								10						
*14:46, <i>DRB3*02:20</i>			3													
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **90N**

Lot-specific information

255	120	175	75	70	95	65	65	75	115	150	75	155	175	195	215	Length of spec. PCR product(s)
			120	150	125	125		180		175	160	180		245		
			245			165				230	195					
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
													30			*13:19, 14:20, 14:40, 14:94, 14:102
							24						30			*13:26, 13:85, 14:02- 14:03:01, 14:13, 14:19, 14:24, 14:27, 14:47, 14:51, 14:63, 14:67, 14:85, 14:89, 14:98
													30			*13:27, 13:71, 13:129
													30			*13:32, 13:40, 14:80
									26				30			*13:34, 13:136
													30			*13:36, 13:65, 13:120, 14:09
													30			*13:39
													30			*13:41
							24						30			*13:53, 14:06:01- 14:06:02, 14:12:01- 14:12:02, 14:18, 14:78, 14:81, 14:106, 14:108
													30			*13:54, 13:100
				21									30			*13:57
17													30			*13:58, 13:81
				21					26				30			*13:64
				21												*13:67
													30			*13:77-13:79, 14:64
				21									30			*13:83, 13:107, 14:65
													30			*13:86
							24						30			*13:104, 14:03:02
									26				30			*13:106
													30			*13:118, 13:135, 14:96
													30			*13:131
17							24						30			*14:29
																*14:38
									26				30			*14:41, 14:77
							24									*14:46, DRB3*02:20
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **90N**

Lot-specific information

Length of spec.	220	85	190	190	75	105	135	185	135	145	105	135	165	105	155	195
PCR product(s)											180	190	225	135		
														245		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*14:48, 14:109, 14:115		2	3							10	11					
*14:49		2								10						
*14:52				4												
*14:59				4						10					15	
*14:82	1									10		12				
*14:83		2		4						10						
*14:86										10					15	
*14:97, 14:110										10						
*14:99										10						
*14:121				4						10						
*15:25								8								
DRB3*01:14										10	11					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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*03 subtyping.

In addition, wells number 3, 11, 14, 17, 19, 26, 27 and 31 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 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 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.

⁴The DRB1*03:11:02 allele has been renamed DRB1*03:81.

⁵DRB1*01 alleles in bold lettering are listed as confirmed alleles on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.8.0, April 2012.

⁶The DRB1*03 primer set cannot separate the DRB1*03:77 and DRB1*14:95 alleles. These alleles can be distinguished by the DR low resolution kit and/or the DRB1*14 high resolution kit.

⁷Primer mix 11: Specific PCR fragment of 105 bp in the DRB1*03:09 and 03:23 alleles. Specific PCR fragment of 180 bp in the DRB1*03:13:01-03:13:02, 03:38 and 03:79 and the DRB1*11:116, 11:120, 13:39, 13:54, 13:77-13:79, 13:100, 14:48, 14:64, 14:109 and 14:115 and in the DRB3*01:14 alleles.

Primer mix 12: Specific PCR fragment of 135 bp in the DRB1*03:10 and the DRB1*14:82 alleles. Specific PCR fragment of 190 bp in the DRB1*03:51 and 03:76 and the DRB1*11:59^w, 11:80^w, 11:83^w, 11:87^w, 13:27^w, 13:41^w, 13:71^w and 13:129^w alleles.

Primer mix 13: Specific PCR fragment of 165 bp in the DRB1*03:47 and 03:62 alleles. Specific PCR fragment of 225 bp in the DRB1 *03:11, 03:17, 03:24, 03:27 and 03:35, 03:81 and the DRB1*14:38 alleles.

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **90N**

Lot-specific information

255	120	175	75	70	95	65	65	75	115	150	75	155	175	195	215	Length of spec. PCR product(s)
			120	150	125	125		180		175	160	180		245		
			245			165				230	195					
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
							24						30			*14:48, 14:109, 14:115
																*14:49
							24									*14:52
													30			*14:59
																*14:82
													30			*14:83
																*14:86
									26							*14:97, 14:110
17																*14:99
							24						30			*14:121
	18															*15:25
									26							DRB3*01:14
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

Primer mix 14: Specific PCR fragment of 105 bp in the DRB1*03:16 allele. Specific PCR fragment of 135 bp in the DRB1*03:12 and the DRB1*09:08 alleles. Specific PCR fragment of 245 bp in the DRB1*03:68N allele.

Primer mix 20: Specific PCR fragment of 75 bp in the DRB1*03:25, 03:31 and 03:75 and the DRB1*11:80 alleles. Specific PCR fragment of 120 bp in the DRB1*03:28 allele. Specific PCR fragment of 245 bp in the DRB1*03:68N allele.

Primer mix 21: Specific PCR fragment of 70 bp in the DRB1*03:21, 03:30 and 03:42-03:43 and the DRB1*11:10:01-11:10:02, 11:12:01-11:13:02, 11:30, 11:114, 12:05, 12:14-12:15, 13:57, 13:64, 13:67, 13:83, 13:107, 14:35, 14:65 and 14:72 alleles. Specific PCR fragment of 150 bp in the DRB1*03:42 and the DRB1*11:30 and 13:67 alleles.

Primer mix 22: Specific PCR fragment of 95 bp in the DRB1*03:18 allele. Specific PCR fragment of 125 bp in the DRB1*03:72 allele.

Primer mix 23: Specific PCR fragment of 65 bp in the DRB1*03:09 and 03:23 alleles. Specific PCR fragment of 125 bp in the DRB1*03:72 allele. Specific PCR fragment of 165 bp in the DRB1*03:19 allele.

Primer mix 25: Specific PCR fragment of 75 bp in the DRB1*03:67N allele. Specific PCR fragment of 180 bp in the DRB1*03:32 allele.

Primer mix 27: Specific PCR fragment of 150 bp in the DRB1*03:53 allele. Specific PCR fragment of 175 bp in the DRB1*03:46 allele. Specific PCR fragment of 230 bp in the DRB1*03:34 allele.

Primer mix 28: Specific PCR fragment of 75 bp in the DRB1*03:67N allele. Specific PCR fragment of 160 bp in the DRB1*03:36 allele. Specific PCR fragment of 195 bp in the DRB1*03:45 allele.

Primer mix 29: Specific PCR fragment of 155 bp in the DRB1*03:40-03:41, 03:52 and 03:75 and the DRB1*11:07, 11:103, 11:105, 11:107 and 11:125 alleles. Specific PCR fragment of 180 bp in the DRB1*03:39 allele.

Primer mix 31: Specific PCR fragment of 195 bp in the DRB1*03:45 allele. Specific PCR fragment of 245 bp in the DRB1*03:50 allele.

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

“w”, may be weakly amplified.

101.113-24/04 – including *Taq* polymerase, IFU-01
101.113-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 90N

Lot-specific information

CELL LINE VALIDATION SHEET																				
DRB1*03 SSP subtyping																				
					Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:	201071301	201071302	201071303	201071304	201071305	201071306	201071307	201071308	201203009	201071310	201071311	201203012	201203013	201203014	201203015	201071316
	IHWC cell line		DRB1																	
1	9001	SA	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*15:02	*04:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*03:01		+	-	-	+	-	+	-	-	+	-	-	-	-	-	-	-
5	9009	KAS011	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*04:07	*08:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*03:01		+	-	-	+	-	+	-	-	+	-	-	-	-	-	-	-
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*04:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*11:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*13:01	+	-	-	+	-	+	-	-	+	-	-	-	-	-	-	-
18	9257	32367	*09:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*12:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*13:02		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*14:02		-	+	+	-	-	-	-	-	-	+	-	-	-	-	-	-
22	9056	KOSE	*13:02	*14:01	-	-	+	-	-	-	-	-	-	+	-	-	-	-	-	-
23	9124	IHL	*08:03	*14:14	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
24	9035	JBUSH	*11:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*03:01		+	-	-	+	-	+	-	-	+	-	-	-	-	-	-	-
27	9191	CH1007	*04:05	*10:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*04:16	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*03:02		-	+	+	-	-	-	-	+	-	+	-	-	-	-	-	-
31	9019	DUCAF	*03:01		+	-	-	+	-	+	-	-	+	-	-	-	-	-	-	-
32	9297	HAG	*13:03		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
33	9098	MT14B	*04:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*11:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*04:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*04:03	*04:06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*13:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*14:02		-	+	+	-	-	-	-	-	-	+	-	-	-	-	-	-
39	9315	CML	*03:01	*04:01	+	-	-	+	-	+	-	-	+	-	-	-	-	-	-	-
40	9134	WHONP199	*07:01	*09:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055	H0301	*13:02		-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*08:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*14:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
45	9239	SHJO	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*11:04	*12:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303	TER-ND	*01:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **90N**

Lot-specific information

CELL LINE VALIDATION SHEET																					
DRB1*03 SSP subtyping																					
					Well																
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.:	201071317	201203018	201071319	201203020	201071321	201203022	201203023	201071324	201203025	201071326	201203027	201203028	201071329	201071330	201071331	201071332	
	IHCW cell line		DRB1																		
1	9001	SA	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280	LK707	*15:02	*04:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	9011	E4181324	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	9275	GU373	*03:01		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
5	9009	KAS011	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353	SM	*04:07	*08:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	9020	QBL	*03:01		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026	YAR	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107	LKT3	*04:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051	PITOUT	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052	DBB	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004	JESTHOM	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071	OLGA	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	9075	DKB	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037	SWEIG007	*11:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	9282	CTM3953540	*03:01	*13:01	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
18	9257	32367	*09:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19	9038	BM16	*12:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	9059	SLE005	*13:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
21	9064	AMALA	*14:02		-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-	
22	9056	KOSE	*13:02	*14:01	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
23	9124	IHL	*08:03	*14:14	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
24	9035	JBUSH	*11:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	9049	IBW9	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	9285	WT49	*03:01		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
27	9191	CH1007	*04:05	*10:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28	9320	BEL5GB	*04:16	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
29	9050	MOU	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	9021	RSH	*03:02		-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-	
31	9019	DUCAF	*03:01		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
32	9297	HAG	*13:03		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
33	9098	MT14B	*04:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	9104	DHIF	*11:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	9302	SSTO	*04:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	9024	KT17	*04:03	*04:06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	9065	HHKB	*13:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
38	9099	LZL	*14:02		-	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-	
39	9315	CML	*03:01	*04:01	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
40	9134	WHONP199	*07:01	*09:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	9055	H0301	*13:02		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	
42	9066	TAB089	*08:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
43	9076	T7526	*09:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	9057	TEM	*14:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	9239	SHJO	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
46	9013	SCHU	*15:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	9045	TUBO	*11:04	*12:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	9303	TER-ND	*01:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

101.113-24/04 – including *Taq* polymerase, IFU-01
 101.113-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **90N**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP® DRB1*03 SSP

Product number: 101.113-24/04 – including *Taq* pol.
 101.113-24u/04u – without *Taq* pol.
 Lot number: 90N
 Expiry date: 2015-January-01
 Number of tests: 24 tests – Product No. 101.113-24/24u
 4 tests – Product No. 101.113-04/04u
 Number of wells per test: 32

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2010-713-01	13	2012-030-13	25	2012-030-25
2	2010-713-02	14	2012-030-14	26	2010-713-26
3	2010-713-03	15	2012-030-15	27	2012-030-27
4	2010-713-04	16	2010-713-16	28	2012-030-28
5	2010-713-05	17	2010-713-17	29	2010-713-29
6	2010-713-06	18	2012-030-18	30	2010-713-30
7	2010-713-07	19	2010-713-19	31	2010-713-31
8	2010-713-08	20	2012-030-20	32	2010-713-32
9	2012-030-09	21	2010-713-21		
10	2010-713-10	22	2012-030-22		
11	2010-713-11	23	2012-030-23		
12	2012-030-12	24	2010-713-24		

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

No DNAs carrying the alleles to be amplified by primer solutions 7, 11 to 15, 17, 19 to 23, 25 to 28, 31 and 32 were available. The specificities of the primers in primer solutions 7, 11 to 15, 17, 21 and 26 were tested by separately adding one additional 5'-primer, respectively one or two additional 3'-primers. In primer solutions 19, 25, 28 and 31 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 20, 22, 23, 27 and 32 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 11 to 15 one or two of the 3'-primers was not possible to test. In primer solutions 21 and 29 one of the 5'-primers was not possible to test. In primer solution 9, one additional 3'-primer was tested by adding one additional 5'-primer.

101.113-24/04 – including *Taq* polymerase, IFU-01
101.113-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **90N**

Lot-specific information

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

Date of approval: 2012-July-26

Approved by:

Production Quality Control

101.113-24/04 – including *Taq* polymerase, IFU-01
101.113-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **90N**

Lot-specific information
Declaration of Conformity

Product name: *Olerup* SSP® DRB1*03
Product number: 101.113-24/24u, -04/04u
Lot number: 90N
Intended use: DRB1*03 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.

The Authorized Representative located within the Community is: *Olerup* SSP AB.

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

Stockholm, Sweden
2012-July-26

Åsa Olausson
Production Quality Control

101.113-24/04 – including *Taq* polymerase, IFU-01
101.113-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **90N**

Lot-specific information

101.113-24/04 – including *Taq* polymerase, IFU-01
101.113-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **90N**

Lot-specific information

101.113-24/04 – including *Taq* polymerase, IFU-01
101.113-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **90N**

Lot-specific information

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Fax: +46-8-717 88 18

E-mail: info-ssp@olerup.com

Web page: <http://www.olerup-ssp.com>

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Fax: +43-1-710 15 00 10

E-mail: support-at@olerup.com

Web page: <http://www.olerup.com>

Olerup Inc., 901 S. Bolmar St., Suite R, West Chester, PA 19382

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Fax: 610-344-7989

E-mail: info.us@olerup.com

Web page: <http://www.olerup.com>

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