

Lot No.: 6K9

Lot-specific information

***Olerup SSP®* DRB1*07**

Product numbers:	101.118-24 – including <i>Taq</i> pol. 101.118-24u – without <i>Taq</i> pol.
Lot number:	6K9
Expiry date:	2024-02-01
Number of tests:	24
Number of wells per test:	21+1
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 6K9.

Complete product documentation consists of generic Instructions for Use (IFU), lot specific Product Insert, Worksheet and Certificate.

CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP®* DRB1*07 LOT (3G7)

- The product documentation has been updated for new alleles of IMGT 3.38.0.
- The kit resolution focuses on common and well documented (CWD) alleles¹.

¹As described in section Uniquely Identified Alleles.

The DRB1*07 specificity and interpretation tables have been updated for the DRB1 alleles described since the previous *Olerup SSP®* DRB1*07 lot was made (**Lot No. 3G7**).

The DRB1*07 primer set is unchanged compared to the previous *Olerup SSP®* HLA-DRB1*07 lot (**Lot No. 3G7**).

¹S. J. Mack, P. Cano, J. A. Hollenbach et al.
Common and well-documented HLA alleles: 2012 update to
the CWD catalogue. Tissue Antigens, 2013, 81, 194–203

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Well **22** contains Negative Control primer pairs, that will amplify the majority of the Olerup SSP[®] HLA Class I, DRB, DQB1, DPB1 and DQA1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

HLA-specific PCR product sizes range from 75 to 200 base pairs.

The PCR product generated by the positive control primer pair is 200 base pairs.

Length of PCR product	105	200	105	80	75	80	85
5'-primer¹	164	340	440	45	45	43	36
	5'-CAC ^{3'}	5'-Agg ^{3'}	5'-TTA ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-TAC ^{3'}
							36
							5'-TAT ^{3'}
3'-primer²	231	2nd I	507	59	58	57	47
	5'-TgC ^{3'}	5'-AAA ^{3'}	5'-TTg ^{3'}	5'-CTC ^{3'}	5'-ggC ^{3'}	5'-CTC ^{3'}	5'-ACA ^{3'}
							48
							5'-gCA ^{3'}
							48
							5'-gCC ^{3'}
							52
							5'-TgT ^{3'}
A*	+	+	+				
B*	+	+	+				
C*	+	+	+				
DRB1				+	+		
DRB3				+	+		
DRB5				+			
DQB1					+		
DPB1						+	
DQA1							+

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

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

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PRODUCT DESCRIPTION

DRB1*07 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DRB1*07:01 to DRB1*07:111 alleles.

PLATE LAYOUT

Each test consists of 22 PCR reactions in a 24 well cut PCR plate. Wells 23 and 24 are empty.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	NC	empty	empty

The 24 well cut PCR plate is marked with 'DRB1*07' in silver/gray ink.

Well No. 1 is marked with the Lot No. '6K9'.

Wells 1 to 21 – DRB1*07 primers.

Well 22 – Negative Control (NC).

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 24 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

Due to the sharing of sequence motifs between DRB1*07 alleles non-DRB1*07 alleles will be amplified by some primer mixes. For further details see Specificity Table.

UNIQUELY IDENTIFIED ALLELES

All the DRB1*07 alleles, i.e. **DRB1*07:01 to DRB1*07:111**, recognized by the HLA Nomenclature Committee in October 2019^{1,2} will be amplified by the primers in the DRB1*07 subtyping kit.

The DRB1*07 kit enables separation of the confirmed DRB1*07 alleles as listed in the IMGT/HLA database 3.25.0. 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*07 alleles is listed below.

The DRB1*07 kit also enables identification of many null and alternatively expressed alleles.

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The following DRB1*07 alleles can be distinguished by the different sizes of the specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
DRB1*07:06, 07:32	6	DRB1*07:39, 07:68N	20
DRB1*07:14, 07:24	11	DRB1*07:40, 07:56	17
DRB1*07:17, 07:27	14	DRB1*07:44, 07:48	21
DRB1*07:30, 07:42	19		

¹DRB1 alleles listed on the IMGT/HLA web page 2019-October-17, release 3.38.0.

²Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <http://hla.alleles.org/alleles/deleted.html>.

ALLELE CONFIRMATION STATUS

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

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2016-July-14, release 3.25.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOSES

Results file with resolution in DRB1*07 homo- and heterozygotes is available upon request.

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SPECIFICITY TABLE

DRB1*07 SSP subtyping

Specificities and sizes of the PCR products of the 21+1 primer mixes used for DRB1*07 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified DRB1*07 alleles ³	Amplified non-DRB1*07 alleles
1⁵	235 bp	515 bp	*07:01:01:01-07:01:23, 07:03-07:21, 07:23-07:24, 07:26N-07:60, 07:62-07:63, 07:65-07:111	
2	185 bp	430 bp	*07:01:01:01-07:01:23, 07:05-07:10N, 07:12-07:24, 07:26N-07:49, 07:51-07:60, 07:62-07:111	
3	185 bp	430 bp	*07:03, 07:09, 07:26N	
4⁴	90 bp 235 bp	515 bp	*07:10N *07:04, 07:25	
5	190 bp 235 bp	430 bp	*07:05 *07:11, 07:25	
6	160 bp 250 bp	430 bp	*07:06, 07:29 *07:32	
7	160 bp	430 bp	*07:07, 07:28-07:29	
8	175 bp 210 bp	430 bp	*07:08, 07:26N *07:51	
9^{4,5}	105 bp 240 bp	430 bp	*07:12 *07:22-07:23	*04:90, 09:08
10⁴	120 bp 165 bp 220 bp	515 bp	*07:34 *07:13 *07:18	*09:35
11⁴	110 bp 260 bp	515 bp	*07:14, 07:34 *07:24	*09:35
12	210 bp 245 bp	430 bp	*07:15, 07:21 *07:23	
13⁶	210 bp	430 bp	*07:16, 07:21, 07:51	
14⁴	125 bp 215 bp 260 bp	430 bp	*07:27 *07:17 *07:20	
15	155 bp 220 bp 260 bp	430 bp	*07:19, 07:28 *07:18 *07:20	
16	200 bp	515 bp	*07:58N	
17	155 bp 265 bp	430 bp	*07:40 *07:56	
18	140 bp 235 bp	430 bp	*07:46 *07:61	
19	135 bp 220 bp	430 bp	*07:30 *07:42	

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20⁴	110 bp 190 bp	430 bp	*07:39 *07:68N
21⁴	125 bp 180 bp	430 bp	*07:48 *07:44
22^{5,7}	-	-	Negative Control

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 DRB*07 SSP subtypings.

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 alleles listed are specified according to amplicon length.

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 internal positive control bands are 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the longer, 515 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases. 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. Assumption is made that unknown sequences in these regions are conserved within allelic groups.

⁴HLA-Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

⁵Primer mixes 1, 9 and 22 have a tendency to giving rise to primer oligomer formation.

⁶Primer mix 13 may have a tendency of unspecific amplification.

⁷Primer mix 22 contains a negative control, which will amplify the majority of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 200 base pairs.

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PRIMER SPECIFICATION

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	235	185	185	90	190	160	160	175	105	120	110	210
PCR product				235	235	250		210	240	165	260	245
										220		
Length of int.	515	430	430	515	430	430	430	430	430	515	515	430
pos. control ¹												
5'-primer(s) ²	14(127) 5'-ATA 3'	29(174) 5'-AgA 3'	29(173) 5'-AAg 3'	14(127) 5'-ATA 3'	14(127) 5'-ATA 3'	14(127) 5'-ATA 3'	14(127) 5'-ATA 3'	21(149) 5'-gAg 3'	10(116) 5'-gCg 3'	14(127) 5'-ATA 3'	14(127) 5'-ATA 3'	10(116) 5'-gCg 3'
	14(127) 5'-ATA 3'		29(174) 5'-AgT 3'					29(173) 5'-AAg 3'	14(127) 5'-gTA 3'	106(405) 5'-ACT 3'	106(405) 5'-ACT 3'	20(145) 5'-ACC 3'
			30(175) 5'-gAT 3'					37(196) 5'-Agg 3'	57(256) 5'-CTA 3'			21(149) 5'-gAA 3'
3'-primer(s) ³	78(319) 5'-CAC 3'	78(319) 5'-CAC 3'	78(319) 5'-CAC 3'	29(174) 5'-...T 3'	64(278) 5'-TCC 3'	51(239) 5'-CCA 3'	51(239) 5'-CCA 3'	78(319) 5'-CAC 3'	78(319) 5'-CAC 3'	55(251) 5'-gCA 3'	35(191) 5'-CCC 3'	78(319) 5'-CAC 3'
	78(319) 5'-gTA 3'			77(317) 5'-AAT 3'	77(317) 5'-Agg 3'	57(257) 5'-CAG 3'	54(248) 5'-gCT 3'			73(304) 5'-gCT 3'	86(344) 5'-CAA 3'	
				78(319) 5'-CAA 3'	78(319) 5'-CAA 3'	84(337) 5'-CCg 3'	55(250) 5'-CCA 3'			133(485) 5'-TCT 3'	133(485) 5'-TCT 3'	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21
Length of spec.	210	125	155	200	155	140	135	110	125
PCR product		215	220		265	235	220	190	180
		260	260						
Length of int.	430	430	430	515	430	430	430	430	430
pos. control ¹									
5'-primer(s) ²	20(145) 5'-ACC 3'	14(127) 5'-ATA 3'	14(127) 5'-ATA 3'	25(160) 5'-TgT 3'	14(127) 5'-ATA 3'	14(127) 5'-ATA 3'	14(127) 5'-ATA 3'	14(127) 5'-ATA 3'	14(127) 5'-ATA 3'
	21(149) 5'-gAg 3'								
	23(154) 5'-Agg 3'								
3'-primer(s) ³	78(319) 5'-CAC 3'	42(213) 5'-TCC 3'	50(235) 5'-CAA 3'	78(319) 5'-CAC 3'	52(241) 5'-CTg 3'	46(224) 5'-ACA 3'	45(221) 5'-CCT 3'	37(198) 5'-ACT 3'	42(212) 5'-CgA 3'
		72(301) 5'-CCA 3'	54(248) 5'-gCT 3'		88(350) 5'-AgT 3'	78(319) 5'-CgC 3'	74(308) 5'-CCC 3'	64(277) 5'-C.g 3'	59(264) 5'-gAA 3'
		86(344) 5'-CAT 3'	73(304) 5'-gCT 3'						
			86(344) 5'-CAT 3'						
Well No.	13	14	15	16	17	18	19	20	21

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The internal positive control bands are 430 or 515 base pairs respectively, well distribution as outlined in the table. Well number 1 contains the longer, 515 bp, internal positive control band. The well distribution of the internal controls can help in orientation of the kit on gel photo, as well as allow for kit identification. In the presence of a specific amplification the intensity of the control band often decreases.

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

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³The nucleotide position matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

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CELL LINE VALIDATION SHEET																				
DRB1*07 SSP subtyping kit ²																				
					Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Production No.	202014301	202014302	202014303	202014304	202014305	202014306	202014307	202014308	202014309	202014310	202014311	202014312	202014313	202014314	202014315	202014316
	IHCW cell line ¹		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		-	-		-		-	-	-		-	-	-	-	-	-	-

Lot No.: 6K9

Lot-specific information

CELL LINE VALIDATION SHEET										
DRB1*07 SSP subtyping kit ²										
						Well				
						17	18	19	20	21
					Production No.	202014317	202014318	202014319	202014320	202014321
	IHCW cell line ¹			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			-	-	-	-	-

Lot No.: 6K9

Lot-specific information

¹The provided cell line HLA specificities are retrieved from the <http://www.ihwg.org/hla> web site. The specificity of an individual cell line may thus be subject to change.

²The specificity of each primer solution in the kit has been tested against 48 well characterized cell line DNAs and where applicable, additional cell line DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 3 to 21 were available. The specificities of the primers in primer solutions 4, 5, 6 and 9 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solutions 3, 8, 12, 13 and 16 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 7, 10, 11, 14, 15 and 17 to 21 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 4 to 6, two 3'-primers were not possible to test, and in primer solution 9, two 5'-primers were not possible to test.

In addition, one 3'-primer in primer solution 1 was tested by separately adding one 5'-primer.

Lot No.: 6K9

Lot-specific information

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