DRB1*10	•••	Page 1 of 8 neral "Instructions for Use" 02 can be downloaded from	
Lot No.: 13L Lot-sp	pecific information	www.olerup-ssp.com	
Olerup SSP [®] DRB1*10			
Product number:	101.129-06 — inclu	ding <i>Taq</i> polymerase	
Lot number:	13L		
Expiry date:	2013-August-01		
Number of tests:	6		
Number of wells per test:	4		
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. 13L.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® DRB1*10 LOT

The DRB1*10 specificity and interpretation tables have been updated for the DRB1 alleles described since the previous *Olerup* SSP[®] DRB1*10 lot was made **(Lot No. 79G)**.

The DRB1*10 primer set is unchanged compared to the previous lot.



Lot-specific information

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PRODUCT DESCRIPTION

DRB1*10 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DRB1*10:01 to DRB1*10:03 alleles.

PLATE LAYOUT

Each test consists of 4 PCR reactions in an 8 well PCR plate. Wells 5 to 8 are empty.

1 2 3	4 empty	empty empty empty
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The 8 well PCR plate is marked with 'DR10' in silver/gray ink.

Well No. 1 is marked with the Lot No. '13L'.

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.

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

Please note: When removing each 8 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

Only DRB1*10 alleles will be amplified by the DRB1*10 subtyping kit. Thus, the interpretation of DRB1*10 subtypings is not influenced by other groups of DRB1 alleles or other DRB genes.

UNIQUELY IDENTIFIED ALLELES

All the DRB1*10 alleles, i.e. **DRB1*10:01 to DRB1*10:03**, recognized by the HLA Nomenclature Committee in October 2010¹ will give rise to unique amplification patterns by the primers in the DRB1*10 subtyping kit.

The DRB1*10 SSP subtyping kit cannot separate the DRB1*10:01:01 to DRB1*10:01:03 alleles.

¹DRB1 alleles listed on the IMGT/HLA web page 2010-October-15, release 3.2.0, <u>www.ebi.ac.uk/imgt/hla</u>.

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 5 alleles generate 3 amplification patterns that can be combined in 6 homozygous and heterozygous combinations. 2 of these genotypes do not give rise to unique amplification patterns.

++-+ ***10:01:01, *10:03 = *10:03, *10:03**

*10:01:01 = *10:01:01-10:01:03

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SPECIFICITY TABLE

DRB1*10 SSP subtyping

Specificities and sizes of the PCR products of the 4 primer mixes used for DRB1*10 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified DRB1*10 alleles
1	210 bp	515 bp	*10:01:01-10:03
2	205 bp	515 bp	*10:01:01-10:01:03, 10:03
3	205 bp	430 bp	*10:02
4 ³	70 bp	430 bp	*10:03

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*10 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 inherit 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.

Wells number 1 and 2 contain 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*10 subtyping and in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

³Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

Lot-specific information

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INTERPRET	ATION	TABL	E			
DRB1*10 SSP subtyping						
Amplification patterns	s of the [DRB1*10	alleles			
	Well					
	1	2	3	4		
Length of spec.	210	205	205	70		
PCR product						
Length of int.	Length of int. 515 515 430 43					
pos. control ¹						
5'-primer ²	31(178)	31(178)	31(178)	31(178)		
	^{5'} -gCg ^{3'}	^{5'} -gCg ^{3'}	^{5'} -gCg ^{3'}	^{5'} -gCg ^{3'}		
3'-primer ³			86(344)			
	^{5'} -CTC ^{3'}	^{5'} -CAC ^{3'}	^{5'} -CCA ^{3'}	^{5'} -CgA ^{3'}		
Well No.	1	2	3	4		
DRB1 allele						
*10:01:01-10:01:03	1	2				
*10:02	1		3			
*10:03	1	2		4		
DRB1 allele						
Well No.	1	2	3	4		

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.

Wells number 1 and 2 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*10 subtyping and in order to allow kit identification.

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

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	DRB1*10 SSP subtyping kit							
				<u> </u>		W	ell	
					1	2	3	4
				Production No.	201183001	201183002	201183003	201183004
	IHW	C cell line	D	RB1				
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	<u>9</u> 107	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		MT14B	*04:04		-	-	-	-
34	9104	DHIF	*11:01		-	-	-	-
35	9302	SSTO	*04:03		-	-	-	-
36	9024	KT17	*04:03	*04:06	-	-	-	-
37	9065	ННКВ	*13:01		-	-	-	-
38	9099		*14:02		-	-	-	-
39	9315	CML	*03:01	*04:01	-	-	-	-
40		WHONP199	*07:01	*09:01	-	-	-	-
41		H0301	*13:02	-	-	-	-	-
42		TAB089	*08:03		-	-	-	-
43		T7526	*09:01		-	-	-	-
44	9057		*14:01		-	-	-	-
45		SHJO	*07:01		-	-	-	-
46		SCHU	*15:01		-	-	-	-
47		TUBO	*11:04	*12:01	-	-	-	-
48		TER-ND	*01:03	12.01	-	-	-	

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CERTIFICATE OF ANALYSIS

<i>Olerup</i> SSP [®] DRB1*10 SSP	
Due due (municipality)	

Product number:101.129-06 – including Taq polymeraseLot number:13LExpiry date:2013-August-01Number of tests:6Number of wells per test:4

Well specifications:

Well No.	Production No.
1	2011-830-01
2	2011-830-02
3	2011-830-03
4	2011-830-04

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

No DNAs carrying the allele to be amplified by primer solution 3 and 4 were available. The specificities of the primers in primer solution 3 and 4 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer.

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

Date of approval: 2011-March-11

Approved by:

Quality Control, Supervisor



Declaration of Conformity

Product name: Product number: Lot number:	<i>Olerup</i> SSP [®] DRB1*10 101.129-06 13L
Intended use:	DRB1*10 high resolution histocompatibility testing
Manufacturer:	<i>Olerup</i> SSP AB Hasselstigen 1 SE-133 33 Saltsjöbaden, Sweden <i>Phone:</i> +46-8-717 88 27 <i>Fax:</i> +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, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

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

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

Saltsjöbaden, Sweden 2011-March-11

Olle Olerup Managing Director



Lot-specific information

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