HLA-A*80 101.434-06 – including <i>Taq</i> polymerase		Page 1 of 8 General "Instructions for Use" No. 03 can be downloaded from
Lot No.: 70M Lot-s	pecific Information	www.olerup-ssp.com
Olerup SSP [®] HLA-A*80		
Product number: Lot number: Expiry date: Number of tests: Number of wells per test: Storage - pre-aliquoted primers: - PCR Master Mix: - Adhesive PCR seals - Product Insert	101.434-06 – inc 70M 2014-March-01 6 3 dark at -20°C -20°C RT RT	luding <i>Taq</i> polymerase

This Product Description is only valid for Lot No. 70M.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® HLA-A*80 LOT

The HLA-A*80 primer set as well as the specificity and interpretation tables are unchanged compared to the previous $Olerup SSP^{\otimes}$ HLA-A*80 lot (Lot No. 06K).



Lot-specific Information

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PRODUCT DESCRIPTION

HLA-A*80 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-A*80:01 to A*80:02 alleles.

PLATE LAYOUT

Each test consists of 3 PCR reactions in an 8 well cut PCR plate. Wells 4 to 8 are empty.

The 8 well cut PCR plate is marked with 'A80' in silver/gray ink.

Well No. 1 is marked with the Lot No. '70M'.

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 8 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

Only the HLA-A*80 alleles will be amplified by the HLA-A*80 subtyping kit. Thus, the interpretation of HLA-A*80 subtypings is not influenced by other HLA genes.

UNIQUELY IDENTIFIED ALLELES

The HLA-A*80 alleles, i.e. **HLA-A*80:01** and **HLA-A*80:02**, recognized by the HLA Nomenclature Committee in July 2011¹ will give rise to unique amplification patterns by the primers in the HLA-A*80 subtyping kit.

¹HLA-A alleles listed on the IMGT/HLA web page 2011-July-14, release 3.5.0, <u>www.ebi.ac.uk/imgt/hla</u>.

RESOLUTION IN HOMO- AND HETEROZYGOTES

The two HLA-A*80 alleles can be combined in 3 homozygous and heterozygous combinations. All these genotypes give rise to unique amplification patterns.



IFU-01 Rev. No. 03 can be downloaded from

Lot No.: **70M**

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SPECIFICITY TABLE

HLA-A*80 SSP subtyping

Specificities and sizes of the PCR products of the 3 primer mixes used for HLA-A*80 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-A alleles
1 ³	135 bp	800 bp	*80:01-80:02
2	155 bp	1070 bp	*80:01
3	165 bp	1070 bp	*80:02

¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-A*80 SSP typings.

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 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-A*80 SSP subtyping.

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

³Short specific PCR fragments are less intense and not as sharp as longer specific bands.

Lot-specific Information

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INTERPRE	ETATION TAE	BLE		
HLA-A*8	30 SSP typin	g		
		Well		
	1	2	3	
Length of spec.	135	155	165	
PCR product				
Length of int.	800	1070	1070	
pos. control ¹				
5'-primer ²	176	176	176	
	^{5'} -gCA ^{3'}	^{5'} -gCA ^{3'}	^{5'} -gCA ^{3'}	
3'-primer ³	270	292	299	
	^{5'} -ACA ^{3'}	^{5'} -gTT ^{3'}	^{5'} -CCA ^{3'}	
Well No.	1	2	3	
HLA-A allele				
*80:01	1	2		
*80:02	1		3	
HLA-A allele				
Well No.	1	2	3	

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

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-A*80 subtyping.

²The nucleotide position, in the 2nd exon, matching the specificity-determining 3'-end of the primer is given. 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 nucleotide position, in the 2nd exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. 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.



Page 5 of 8 General "Instructions for Use" IFU-01 Rev. No. 03 can be downloaded from

Lot No.: **70M**

Lot-specific Information

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		HLA-A*	80 SSP	kit			
					V	Nel	
					1	2	2
				Lot No.:	201072301	201072302	201072303
	IHV	VC cell line	A *	A *			
1	9001	SA	*24:02		-	-	-
2	9280	LK707	*02:01		-	-	-
3	9011	E4181324	*01:01		-	-	-
4	9275	GU373	*30:01		-	-	-
5	9009	KAS011	*01:01		-	-	-
6	9353	SM	*02:01	*26:03	-	-	-
7	9020	QBL	*26:01		-	-	-
8	9025		*31:01		-	-	-
9	9026	YAR	*26:01		-	-	-
10	9107	LKT3	*24:02		-	-	-
11	9051	PITOUT	*29:02		-	-	-
12	9052	DBB	*02:01		-	-	-
13	9004	JESTHOM	*02:01		-	-	-
14	9071	OLGA	*31:01		-	-	-
15	9075	DKB	*24:02		-	-	-
16	9037	SWEIG007	*29:02		-	-	-
17	9282	CTM3953540	*03:01	*80:01	+	+	-
18		32367	*33:03	*74:01	-	-	-
19		BM16	*02:01		-	-	-
20		SLE005	*02:01		-	-	-
21		AMALA	*02:17		-	-	-
22		KOSE	*02:01		-	-	-
23	9124		*02:01	*34:01	-	-	-
24	-	JBUSH	*32:01	0-1.01	-	-	-
25		IBW9	*33:01		-	-	-
26		WT49	*02:05		-	-	-
20 27		CH1007	*24:10	*29:01	_	_	_
28		BEL5GB	*02:01	*29:02	_	_	_
20 29		MOU	*29:02	29.02	-	-	-
29 30	9050		*30:01	*68:02			-
30 31		DUCAF	*30:01	00.02	<u> </u>	-	-
-			*02:02			-	-
32 33			*31:01				-
_		MT14B					-
34 25		DHIF SSTO	*31:01		-	-	-
35			*32:01	*14-04	-	-	-
36		KT17	*02:06	*11:01	-	-	-
37		HHKB	*03:01		-	-	-
38	9099		*02:17	*00.01	-	-	-
39	9315		*01:01	*03:01	-	-	-
40		WHONP199	*02:07	*30:01	-	-	-
41		H0301	*03:01		-	-	-
42		TAB089	*02:07		-	-	-
43		T7526	*02:06	*02:07	-	-	-
44	9057		*66:01		-	-	-
45		SHJO	*23:01	*24:02	-	-	-
46	9013	SCHU	*03:01		-	-	-
47	9045	TUBO	*02:16	*03:01	-	-	-
48	9303	TER-ND	*02:01	*11:01	-	-	-

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Lot No.: **70M**

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CERTIFICATE OF ANALYSIS

<i>Olerup</i> SSP [®] HLA-A*80 SSP	
Product number:	101.434-06 – including <i>Taq</i> polymerase
Lot number:	70M
Expiry date:	2014-March-01
Number of tests:	6
Number of wells per test:	3

Well specifications:

Well No.	Production No.
1	2010-723-01
2	2010-723-02
3	2010-723-03

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 solution 3 were available. The specificities of the primers in primer solution 3 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-October-06

Approved by:

Quality Control, Supervisor



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Declaration of Conformity

Product name: Product number: Lot number:	<i>Olerup</i> SSP [®] HLA-A*80 101.434-06 70M
Intended use:	HLA-A*80 high resolution histocompatibility testing
Manufacturer:	<i>Olerup</i> SSP AB Franzengatan 5 SE-112 51 Stockholm, 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, Franzengatan 5, SE-112 51 Stockholm, Sweden.

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

Stockholm, Sweden 2011-October-06

Ann-Cathrin Jareman Head of QA and Regulatory Affairs



Lot-specific Information

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