HLA-B*27 – unit dose Product Insert Page 1 of 12 101.531-48u – without *Taq* polymerase General "Instructions for Use"

IFU-02 Rev. No. 01 can be downloaded from

Lot No.: 77G Lot-specific information www.olerup-ssp.com

Olerup SSP® HLA-B*27 - unit dose

Product number: 101.531-48u – without *Taq* polymerase

Lot number: 77G

Expiry date: 2011-December-01

Number of tests: 48 Number of wells per test: 2

Storage - pre-aliquoted primers: dark at -20°C

- PCR Master Mix: -20°C
- Control DNAs: -20°C
- Adhesive PCR seals RT
- Product Insert RT

This Product Description is only valid for Lot No. 77G.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® HLA-B*27 LOT

The HLA-B*27 specificity and interpretation tables has been updated for the HLA-B alleles described since the previous *Olerup* SSP[®] HLA-B*27 lot **(Lot No. 53F)** was made.

The HLA-B*27 unit dose primer set is unchanged compared to the previous lot.

Changes in revision R01 compared to R00:

1. A section "Protocols" has been included.



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PRODUCT DESCRIPTION

HLA-B*27 SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-B27 specificity, B*2701 to B*2759N.

Positive and negative control DNAs are included in the kit.

DNA 1; a B*27-positive DNA as a positive control, **IHW 9315**, **CML**, **B*0801,270502**. DNA 2; a B*73-positive DNA as a negative control, **IHW 9280**, **LK707**, **B*520101,7301**. (A B*7301-positive DNA was chosen as negative control, as this is most similar to the B*27 group of alleles in the primer matching regions.)

PLATE LAYOUT

Each test consists of 2 PCR reactions. 4 tests are aliquoted in each cut 8 well PCR plate.

1 2 1 2 1 2 1 2

The 8 well cut PCR plate is marked with 'B27' in silver/gray ink.

Well No. 1 is marked with the Lot No. '77G'.

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 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

In addition to the HLA-B*27 alleles, the B*3702, B*4704 and B*4705 will be amplified by primer mix 2 of the HLA-B*27 kit.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*27 alleles, i.e. **B*2701 to B*2759N**, recognized by the HLA Nomenclature Committee in October 2009¹ are identified by the primers in the HLA-B*27 SSP kit.

In addition, the B*3702, B*4704 and B*4705 alleles are amplified by primer mix 2 of the HLA-B*27 kit.

¹HLA-B alleles listed on the IMGT/HLA web page 2009-October-19, release 2.27.0, www.ebi.ac.uk/imgt/hla.

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PROTOCOL

DNA EXTRACTION

Extracted, highly pure DNA is needed for SSP typings. DNA samples to be used for PCR-SSP HLA typing should be re-suspended in dH_2O . The A260/A280 ratio should be 1.6 – 2.0 by UV spectrophotometry for optimal band visualization during electrophoresis.

We recommend automated DNA extraction with the QIAGEN EZ1 DSP DNA Blood System. ACD blood should be used as starting material.

Alternatively, the DNA can be extracted by any preferred method yielding pure DNA. When using alternative methods, the DNA concentration should be adjusted to 30 $\text{ng/}\mu\text{l}$. **Do not use heparinised blood with these methods.**

Recommended DNA concentration using:

EZ1-extracted DNA, 15 ng/μl.

DNA extracted by other methods, 30 ng/µl.

Concentrations exceeding 50 $\text{ng/}\mu\text{l}$ will increase the risk for nonspecific amplifications and weak extra bands, especially for HLA Class I high resolution SSP typings. If necessary, dilute the extracted DNA in dH_2O .

PCR AMPLIFICATION

March 2010

Rev. No.: 01u

101.531-48u - without Tag polymerase

For one HLA-B*27 typing add at room temperature in a 0.5 ml tube:

 $4 \times 2 \mu I = 8 \mu I DNA (30 ng/\mu I)$

 $4 \times 3 \mu I = 12 \mu I$ PCR Master Mix without Taq – mix well before taking your aliquot

0.3 μl *Taq* polymerase (5 units/μl)

 $4 \times 5 \mu I - 0.3 \mu I = 19.7 \mu I dH₂O$

Mix well, dispense 10 μ l of the DNA-PCR Master Mix-Taq-H₂O mixture into each of the 2 wells of an HLA-B*27 typing. *The 8 well PCR plate is marked with the lot number.* Cover the primer tray(s) with the provided adhesive PCR seals. Check that all reaction wells are completely covered to prevent evaporative loss during PCR amplification. The *Olerup* SSP[®] Compression Pad (Product No. 103.505-06) can be applied on top of the adhesive PCR seals to prevent evaporation during thermal cycling.

Use a 96 well thermal cycler with a heated lid. The temperature gradient across the heating block should be $< 1^{\circ}$ C.

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PCR cycling parameters:

1.	1 cycle	94°C	2 min	denaturation
2.	10 cycles	94°C	10 sec.	denaturation
	-	65°C	60 sec.	annealing and extension
3.	20 cycles	94°C	10 sec.	denaturation
	-	61°C	50 sec.	annealing
		72°C	30 sec.	extension
4.	End - hold	RT		if less than 8 hours
		4°C		if longer than 8 hours

Total reaction volume in each well, 10 µl.

The same PCR cycling parameters are used for all the Olerup SSP kits.

AGAROSE GEL ELECTROPHORESIS

Prepare a 2% (w/v) agarose gel in 0.5 x TBE buffer. Dissolve the agarose by boiling in a microwave oven. Let the gel solution cool to 60° C. Stain the gel prior to casting with ethidium bromide (10 mg/ml), 5 μ l per 100 ml gel solution. For maximal ease of handling use our ethidium bromide dropper bottles (Product No. 103.301-10). Note: Ethidium bromide is a carcinogen. Handle with appropriate personal protective equipment.

Load a DNA size marker (100 base pair ladder, DNA Size Marker Product No. 103.202-100 or DNA Size Marker for short gel runs 103.203-100) in one well per row.

Run the gel in 0.5 x TBE buffer, without re-circulation of the buffer, for 15-20 minutes at 8-10 V/cm.

DOCUMENTATION AND INTERPRETATION

Put the gel on a UV transilluminator and document by photography.

Record the presence and absence of specific PCR products. The length of the specific PCR product is helpful in the interpretation of the results.

Record the presence of the internal positive control bands.

Lanes without either control band or specific PCR products should be repeated.

Interpret the typings with the *lot-specific Interpretation and Specificity Tables*.



HLA-B*27 – unit dose Product Insert Page 5 of 12 101.531-48u – without *Taq* polymerase General "Instructions for Use"

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PCR MASTER MIXES

The PCR Master Mix without *Taq* contains:

 $\begin{array}{ll} \text{nucleotides} & \text{final concentration of each dNTP is 200 } \mu\text{M} \\ \text{PCR buffer} & \text{final concentrations: 50 mM KCl, 1.5 mM MgCl}_2, \\ \end{array}$

10 mM Tris-HCl pH 8.3, 0.001% w/v gelatin

glycerol final concentration of glycerol is 5%

cresol red final concentration of cresol red is 100 µg/ml

The same PCR Master Mix is used for all Olerup SSP kits without Taq polymerase.

When stored at -20° C, the PCR Master Mix without Taq polymerase is stable for 27 months from the date of manufacture.

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Lot No.: **77G** Lot-specific information

www.olerup-ssp.com

SPECIFICITY TABLE

HLA-B*27 SSP typing

Specificity and size of the PCR product of the two primer mixes used for HLA-B*27 SSP typing.

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*27 alleles	Other amplified HLA-B alleles ³
1	145 bp	430 bp	*2701-270508, 270510- 2711, 2713-2715, 2717, 2719-2721, 2724, 2725, 2727, 2728, 2730, 2732- 2759N	
2 ⁴	95 bp	515 bp	*2701-270512, 2708, 2710, 2712, 2713, 2715-2718, 2723, 2725, 2726, 2728, 2729, 2731, 2736- 2740, 2742, 2744, 2745, 2747-2759N	*3702, 4704, 4705

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-B*27 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 430 base pairs or a band of 515 base pairs.

Well number 1 contains the primer pair giving rise to the shorter, 430 bp, internal positive control band in order to help in the correct orientation of the HLA-B*27 typing.

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

³Due to the sharing of sequence motifs between HLA-B alleles three non-HLA-B*27 alleles will be amplified by primer mix 2.

⁴Short specific PCR fragments are less intense and not as sharp as longer specific bands.

4704, 4705

HLA-B allele⁵

Well No.

*2706, 2707, 2709, 2711, 2714,

2719-2721, 2724, 2727, 2730,

2732-2735, 2741, 2743, 2746

Lot-specific information

Lot No.: **77G** www.olerup-ssp.com INTERPRETATION TABLE **HLA-B*27 SSP typing** Amplification pattern of the B*2701 to 2759N alleles¹ Well 1 2 145 Length of spec. 95 Length of spec. **PCR** product **PCR** product Length of int. 430 515 Length of int. pos. control pos. control² 167 363 5'-primer³ 5'-primer³ '-gCT 3' 5'-AAT 3' 3'-primer⁴ 272 418 3'-primer4 Well No. 1 2 Well No. HLA-B allele⁵ HLA-B allele⁵ *2701-270508, 270510-*2701-270508, 270510-270512, 2708, 2710, 2713, 270512, 2708, 2710, 2713, 2715, 2717, 2725, 2728, 2736-1 2 2715, 2717, 2725, 2728, 2736-2740, 2742, 2744, 2745, 2747-2740, 2742, 2744, 2745, 2747-2759N 2759N *270509, 2712, 2716, 2718, *270509, 2712, 2716, 2718, 2723, 2726, 2729, 2731, 3702, 2 2723, 2726, 2729, 2731, 3702,

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The B*2722 sequence shown to be identical to the corrected B*2706 sequence.



4704, 4705

HLA-B allele5

Well No.

*2706, 2707, 2709, 2711, 2714,

2719-2721, 2724, 2727, 2730,

2732-2735, 2741, 2743, 2746

¹Due to the sharing of sequence motifs between HLA-B alleles three non-HLA-B*27 alleles will be amplified by primer mix 2; B*3702, B*4704, B*4705.

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 or a band of 515 base pairs.

Well number 1 contains the primer pair giving rise to the shorter, 430 bp, internal positive control band in order to help in the correct orientation of the HLA-B*27 typing.

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

³The nucleotide position, in the 2nd and 3rd exons, 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.

⁴The nucleotide position, in the 2nd and 3rd exons, 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.

The sequence of the B*270501 allele has been shown to be identical to B*270502.

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29 9050 MOU *4403 - 30 9021 RSH *4201 - 31 9019 DUCAF *1801 - 32 9297 HAG *4102 - 33 9098 MT14B *4001 -		*5101	*0705	CH1007	9191	27				
30 9021 RSH *4201 - 31 9019 DUCAF *1801 - 32 9297 HAG *4102 - 33 9098 MT14B *4001 -		*4403	*4402	BEL5GB	9320	28				
31 9019 DUCAF *1801 - 32 9297 HAG *4102 - 33 9098 MT14B *4001 -	- -			MOU	9050	29				
32 9297 HAG *4102 - 33 9098 MT14B *4001 -				RSH	9021	30				
33 9098 MT14B *4001 -										
	- -									
34 9104 DHF *3801	- -									
			*3801			34				
35 9302 SSTO *4402 -	- -	*0501								
36 9024 KT17 *1501 *3501 -	- -	"35U1								
37 9065 HHKB *0702 -						_				
38 9099 LZL *1501 - 39 9315 CML *0801 *2705 +		*2705								
40 9134 WHONP199 *1302 *4601 -	+ +									
41 9055 H0301 *1402 -		- 1 001								
42 9066 TAB089 *4601 -	- -									
43 9076 T7526 *4601 -	_ _									
44 9057 TEM *3801 -	- -					_				
45 9239 SHJO *4201 *5001 -	- -	*5001								
46 9013 SCHU *0702 -	- -					_				
47 9045 TUBO *5101 -	- -					_				
48 9303 TER-ND *3501 *4403 -	- -	*4403	*3501	TER-ND	9303	48				

HLA-B*27 – unit dose Product Insert Page 9 of 12

101.531-48u – without *Taq* polymerase General "Instructions for Use"

IFU-02 Rev. No. 01 can be downloaded from Lot-specific information www.olerup-ssp.com

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B*27 SSP – unit dose

Product number: 101.531-48u – without *Taq* polymerase

Lot number: 77G

Expiry date: 2011-December-01

Number of tests: 48 Number of wells per test: 2

Well specifications:

Lot No.: **77G**

Well No.	Production No.	
1	2009-646-01	
2	2009-646-02	

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

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

Date of approval: 2010-March-21

Approved by:

March 2010

Rev. No.: 01u

Quality Control, Supervisor

HLA-B*27 – unit dose Product Insert Page 10 of 12 101.531-48u – without *Taq* polymerase General "Instructions for Use"

IFU-02 Rev. No. 01 can be downloaded from

Lot No.: 77G Lot-specific information www.olerup-ssp.com

Declaration of Conformity

Product name: Olerup SSP® HLA-B*27 - unit dose

Product number: 101.531-48u

Lot number: 77G

Intended use: HLA-B*27 low resolution histocompatibility testing

Manufacturer: Olerup SSP AB

Hasselstigen 1

SE-133 33 Saltsjöbaden, 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, 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 2010-March-21

Olle Olerup Managing Director

Rev. No.: 01u

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Addresses:

Manufacturer:

Olerup SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

Tel: +46-8-717 88 27 **Fax:** +46-8-717 88 18

E-mail: info-ssp@olerup.com

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

Distributed by:

Olerup GmbH, Löwengasse 47 / 6, AT-1030 Vienna, Austria.

Tel: +43-1-710 15 00 **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

Tel: 1-877-OLERUP1 **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.

