

Lot No.: **80M**

Lot-specific Information

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Olerup SSP[®] HLA Wipe Test – Negative Control

Product number:	102.101-01u –without <i>Taq</i> polymerase
Lot number:	80M
Expiry date:	2014-March-01
Number of tests:	96
Number of wells per test:	1-2
Storage - pre-aliquoted primers:	dark at -20°C
- Positive Control DNA:	-20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 80M.

GENERAL DESCRIPTION

The *Olerup SSP[®]* HLA Wipe Test – Negative Control is intended to be used to monitor for contamination with amplicons generated by the *Olerup SSP[®]* product line and can also be used as a negative control in *Olerup SSP[®]* typings.

The primer set contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup SSP[®]* HLA Class I, DRB, DQB1 and DPB1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

The *Olerup SSP[®]* HLA Wipe Test – Negative Control has the sensitivity to detect approximately 50 copies of DNA template.

PRODUCT DESCRIPTION

HLA Wipe Test – Negative Control

CONTENT

The primer set contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup SSP*[®] HLA Class I, DRB, DQB1 and DPB1 amplicons as well as all the amplicons generated by the control primer pairs matching the human growth hormone gene.

PCR product sizes range from 75 to 430 base pairs.
 The PCR product generated by the control primer pair is 430 base pairs.

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

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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The primer solution is pre-aliquoted into 0.2 ml PCR wells. Each well contains the same dried primer solution.

PCR Master Mix without *Taq*, nucleotides, buffer, glycerol and cresol red, as well as adhesive PCR seals are included in the kit.

1-2 PCR reactions with a reaction volume of 10 µl are performed per test.

Positive Control DNA is included in the kit, 20 ng/µl, 75 µl.

Sterile swabs, Dacron fiber tipped, plastic applicator are included in the kit. One per envelope, 100 per kit.

PLATE LAYOUT

Each test consists of 1-2 PCR reactions. Each well of the 8 well PCR plates contains the same primer mix.

1	1	1	1	1	1	1	1
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The 8 well cut PCR plate is marked with ‘WT’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘80M’.

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 PCR well, make sure that the remaining plates/wells stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates/wells.

PROTOCOL

It is recommended that 10 to 12 commonly used areas are tested for contamination; DNA preparation area, PCR setup area and post-amplification area. Test e.g. work benches, pipettes, centrifuges, refrigerator and freezer handles, door knobs and racks.

1. In a DNA free location label one 1.5 ml tube for each of the sample areas.
2. Add 500 µl sterile, distilled water to each tube.
3. Wet one of the provided sterile plastic applicator swab in each tube.
4. Wipe the area to be tested with the moistened applicator, and place it back in the original tube. Snap off the plastic stem of the applicator and close the cap of the tube.
5. Vortex briefly.
6. Incubate the samples at 55°C in a waterbath or heating block for 1 hour.
7. Centrifuge, 1 minute, 10 000 to 13 000 rpm in a microcentrifuge.
8. Remove and discard the applicator from the tubes with sterile forceps.

PCR AMPLIFICATION

Positive control well.

Add 1 µl of the provided Positive Control DNA and 1 µl of dH₂O to well 1.

Negative control well.

Add 2 µl of dH₂O to well 2.

For each test area run two wells.

Add to the first well for each test area; 1 µl of the test sample and 1 µl of dH₂O.

Add to the second well for each test area; 1 µl of the test sample and 1 µl of the Positive Control DNA. This well serves as an inhibition control.

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In a 0.5 ml tube mix:

3 μ l of PCR Master Mix without *Taq* x the number of wells + 2,
0.1 μ l of *Taq* polymerase (5 units/ μ l) x the number of wells + 2 and
5-0.1 μ l of dH₂O x the number of wells + 2

e.g. for a Wipe Test consisting of (i) positive control well, (ii) negative control well and (iii) 10 tested areas (2 x 10 wells) mix:

24 x 3 = 72 μ l of PCR Master Mix without *Taq* and

24 x 0.1 = 2.4 μ l of *Taq* polymerase

24 x 5 – 2.4 = 117.6 μ l of dH₂O

Mix well, dispense 8 μ l of the PCR Master Mix without *Taq*-*Taq*-H₂O mixture into each of the wells of the HLA Wipe test. **Well No. 1 of the 8 well PCR plates is marked with the lot number.** Close the 8 well PCR plate(s) with the provided seals.

The HLA Wipe Test – Negative Control can also be used as a negative control when using the *Olerup SSP*[®] kits.

Cut off one well with a pair of scissors. Add to this well;

Cut off one well with a pair of scissors. Add to this well;

3 μ l of PCR Master Mix without *Taq*

0.1 μ l of *Taq* polymerase (5 units/ μ l)

6.9 μ l of dH₂O

Include this well as a negative control when performing *Olerup SSP*[®] typings.

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Use a 96 well thermal cycler with a heated lid. The temperature gradient across the heating block should be < 1°C.

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

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 µl per 100 ml gel solution. For maximal ease of handling use our ethidium bromide dropper bottles (Product No. 103.301-10), 1 drop of ethidium bromide solution per 50-75 ml of gel. **Note:** Ethidium bromide is a powerful carcinogen.

Load the PCR products, preferably using an 8-channel pipette. Load a DNA size marker (100 base pair ladder, Product No. 103.201-100) 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.

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DOCUMENTATION AND INTERPRETATION

Put the gel on a UV transilluminator and document by photography.
Record the presence and absence of PCR products.

HLA Wipe Test

In the positive control lane one or several PCR products should be seen.

In the negative control lane no PCR product should be seen¹.

The presence of PCR product(s) in the sample lanes without Positive Control DNA indicates contamination¹.

The absence of PCR product in the sample lanes without Positive Control DNA shows that no detectable contamination is present

In the sample lanes with the Positive Control DNA PCR product(s) of equal strength as in the positive control lane should be seen. If these PCR product(s) are weaker than the PCR product(s) in the positive control lane, then an inhibitor may be present in the sample. The test should then be repeated with the sample diluted 1:50 in sterile dH₂O.

If contamination is detected, clean the area with a fresh 10% bleach solution and re-test the area.

Negative Control

In the negative control well no PCR product should be seen. The presence of PCR product(s) indicates contamination¹.

If contamination is detected, wipe test and testing of all reagents should be performed in order to detect the source of contamination.

¹Primer oligomer artifacts may be seen. This does not represent contamination.

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CERTIFICATE OF ANALYSIS

Olerup SSP[®] HLA Wipe Test – Negative Control

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Lot number: 80M
Expiry date: 2014-March-01
Number of tests: 96
Number of wells per test: 1-2

Well specification:

Well No.	Production No.
1	2010-760-01

The negative control primer solution has been tested in a dilution series of the corresponding PCR products, 1 to 10³ down to 1 to 10⁹.

The Positive Control DNA has been tested with the HLA Wipe Test kit and gives rise to PCR amplicons.

Results: The negative control primer pairs can detect contamination with the corresponding PCR products diluted 1 to 10⁷.

Date of approval: 2011-October-17

Approved by:

Quality Control, Supervisor

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Declaration of Conformity

Product name: *Olerup* SSP® HLA Wipe Test – Negative Control
Product number: 102.101-01u
Lot number: 80M

Intended use: Detection of contamination with HLA amplicons.

Manufacturer: *Olerup* SSP AB
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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 III, 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.

Stockholm, Sweden
2011-October-17

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

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