**Lot No.: 79E** **Lot-specific information**

# *Olerup* SSP® HLA-A*2409N

| | |
|---|---|
| **Product number:** | **101.841-12u – without *Taq* polymerase** |
| **Lot number:** | **79E** |
| **Expiry date:** | **2010-June-01** |
| **Number of tests:** | **12** |
| **Number of wells per test:** | **2** |
| **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. 79E.

**Lot No.: 79E** **Lot-specific information**

# PRODUCT DESCRIPTION

## HLA-A*2409N SSP subtyping

### CONTENT
The primer set contains 5'- and 3'-primers for identifying the HLA-A*2409N allele.

### PLATE LAYOUT
Each test consists of 2 PCR reactions in an 8 well cut PCR plate. Each 8 well cut PCR plate contains four tests.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **1** | **2** | **1** | **2** | **1** | **2** | **1** | **2** |

The 8 well cut PCR plate is marked with the Lot No. '79E'.
Well No. 1 is marked with the Lot No. '79E'.
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
The interpretation of HLA-A*2409N SSP subtypings will be influenced by the A*2314, most A*24 and the A*2616 allele.

### UNIQUELY IDENTIFIED ALLELES
The HLA-A*2409N allele will give rise to a unique amplification pattern by the primers in the HLA-A*2409N kit[1].

[1]HLA-A alleles listed on the IMGT/HLA web page 2008-April-08, release 2.21.0, www.ebi.ac.uk/imgt/hla.

**Lot No.: 79E** **Lot-specific information**

# SPECIFICITY TABLE

## HLA-A*2409N SSP subtyping

### Specificities and sizes of the PCR products of the 2 primer mixes used for HLA-A*2409N SSP subtyping

| Primer Mix | Size of spec. PCR product[1] | Size of control band[2] | Amplified HLA-A alleles |
|---|---|---|---|
| **1**[3] | 105 bp | **800 bp** | 2409N |
| **2** | 175, 205 bp | 1070 bp | 021701-021702[weakly], 2314, 24020101-2409N, 2411N, 241301-241302, 2417-2450, 2454-2456, 2458-2463, 2466-2486N, 2616 |

[1]Alleles 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*2409N SSP typings.
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.
[2]The 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*2409N subtyping.
[3]Specific PCR fragments shorter than 150 base pairs have a lower intensity than longer PCR bands.

**Lot No.: 79E** **Lot-specific information**

| INTERPRETATION TABLE | | |
|---|---|---|
| **HLA-A*2409N SSP typing** | | |
| | **Well** | |
| | **1** | **2** |
| **Length of spec.** | **105** | **175** |
| **PCR product** | | **205** |
| **Length of int.** | **800** | **1070** |
| **pos. control[1]** | | |
| **5'-primer(s)[2]** | **678** | **98** |
| | **5'-AgA3'** | **5'-CTC3'** |
| | | **368** |
| | | **5'-gTT3'** |
| | | |
| **3'-primer(s)[3]** | **742** | **259** |
| | **5'-CTA3'** | **5'-gTT3'** |
| | | **502** |
| | | **5'-CTT3'** |
| | | **539** |
| | | **5'-TCT3'** |
| **Well No.** | **1** | **2** |
| **HLA-A allele** | | |
| ***2409N** | **1** | **2** |
| ***021701-021702** | | **w** |
| ***2314, 24020101-2408, 2411N, 241301-241302, 2417-2450, 2454-2456, 2458-2463, 2466-2486N, 2616** | | **2** |
| **HLA-A allele** | | |
| **Well No.** | **1** | **2** |

[1]The 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*2409N subtyping. .
[2]The nucleotide position, in the 2nd, 3rd or 4th 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.
[3]The nucleotide position, in the 2nd, 3rd or 4th 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.

**Lot No.: 79E** **Lot-specific information**

# CELL LINE VALIDATION SHEET

## HLA-A2409N SSP kit

| | | | | | Well | |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| | | | | Lot No.: | 200848201 | 200848202 |
| | IHWC cell line | | A* | A* | | |
| 1 | 9001 | SA | *2402 | | - | + |
| 2 | 9280 | LK707 | *0201 | | - | - |
| 3 | 9011 | E4181324 | *0101 | | - | - |
| 4 | 9275 | GU373 | *3001 | | - | - |
| 5 | 9009 | KAS011 | *0101 | | - | - |
| 6 | 9353 | SM | *0201 | *2603 | - | - |
| 7 | 9020 | QBL | *2601 | | - | - |
| 8 | 9007 | DEM | *0201 | | - | - |
| 9 | 9026 | YAR | *2601 | | - | - |
| 10 | 9107 | LKT3 | *2402 | | - | + |
| 11 | 9051 | PITOUT | *2902 | | - | - |
| 12 | 9052 | DBB | *0201 | | - | - |
| 13 | 9067 | BTB | *0201 | | - | - |
| 14 | 9071 | OLGA | *3101 | | - | - |
| 15 | 9075 | DKB | *2402 | | - | + |
| 16 | 9037 | SWEIG007 | *2902 | | - | - |
| 17 | 9008 | WILJON | *2501 | | - | - |
| 18 | 9257 | 32367 | *3303 | *7401 | - | - |
| 19 | 9038 | BM16 | *0201 | | - | - |
| 20 | 9059 | SLE005 | *0201 | | - | - |
| 21 | 9064 | AMALA | *0217 | | - | w |
| 22 | 9056 | KOSE | *0201 | | - | - |
| 23 | 9124 | IHL | *0201 | *3401 | - | - |
| 24 | 9035 | JBUSH | *3201 | | - | - |
| 25 | 9049 | IBW9 | *3301 | | - | - |
| 26 | 9285 | WT49 | *0205 | | - | - |
| 27 | 9191 | CH1007 | *2410 | *2901 | - | - |
| 28 | 9320 | BEL5GB | *0201 | *2902 | - | - |
| 29 | 9050 | MOU | *2902 | | - | - |
| 30 | 9021 | RSH | *3001 | *6802 | - | - |
| 31 | 9019 | DUCAF | *3002 | | - | - |
| 32 | 9297 | HAG | *0201 | | - | - |
| 33 | 9098 | MT14B | *3101 | | - | - |
| 34 | 9104 | DHIF | *3101 | | - | - |
| 35 | 9302 | SSTO | *3201 | | - | - |
| 36 | 9024 | KT17 | *0206 | *1101 | - | - |
| 37 | 9065 | HHKB | *0301 | | - | - |
| 38 | 9099 | LZL | *0217 | | - | w |
| 39 | 9315 | CML | *0101 | *0301 | - | - |
| 40 | 9134 | WHONP199 | *0207 | *3001 | - | - |
| 41 | 9055 | H0301 | *0301 | | - | - |
| 42 | 9066 | TAB089 | *0207 | | - | - |
| 43 | 9076 | T7526 | *0207 | | - | - |
| 44 | 9057 | TEM | *6601 | | - | - |
| 45 | 9239 | SHJO | *2301 | *2402 | - | + |
| 46 | 9013 | SCHU | *0301 | | - | - |
| 47 | 9045 | TUBO | *0216 | *0301 | - | - |
| 48 | 9303 | TER-ND | *0201 | *1101 | - | - |

**Lot No.: 79E** **Lot-specific information**

# CERTIFICATE OF ANALYSIS

## *Olerup* SSP® HLA-A*2409N SSP

**Product number:** **101.841-12u – without *Taq* polymerase**
**Lot number:** **79E**
**Expiry date:** **2010-June-01**
**Number of tests:** **12**
**Number of wells per test:** **2**

**Well specifications:**

| Well No. | Production No. |
|---|---|
| 1 | 2008-482-01 |
| 2 | 2008-482-02 |

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 1 were available. In primer solution 1 it was only possible to test the 5'-primer by separately adding one additional 3'-primer, the 3'-primer was not possible to test.

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

***Date of approval:*** 2009-May-27

***Approved by:***

**Quality Control, Supervisor**

**Lot No.: 79E** **Lot-specific information**

# Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-A*2409N
**Product number:** 101.841-12u
**Lot number:** 79E

**Intended use:** HLA-A*2409N 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 9001:2000 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, 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
2009-May-27

Olle Olerup
Managing Director

**Lot No.: 79E** **Lot-specific information**

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