DRB1\*07 Product Insert Page 1 of 12

101.118-24 – including *Taq* polymerase 101.118-24u – without *Taq* polymerase

Lot No.: 32E Lot-specific information www.olerup.com

# Olerup SSP® DRB1\*07

Product numbers: 101.118-24 – including *Taq* polymerase

101.118-24u – without *Taq* polymerase

Lot number: 32E

Expiry date: 2010-April-01

Number of tests: 24 Number of wells per test: 12

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

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

This Product Description is only valid for Lot No. 32E.

# CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® DRB1\*07 LOT

The DRB1\*07 specificity and interpretation tables have been updated for the DRB1 alleles described since the previous *Olerup* SSP® DRB1\*07 lot **(Lot No. X68)** was made.

Four wells have been added to the DRB1\*07 kit, wells **9 to 12**.

The primers of the wells detailed below have been exchanged, added or modified compared to the previous lot.

| Well | 5'-primer | 3'-primer | rationale                                  |
|------|-----------|-----------|--|
| 3    | Removed   | Removed   | Primer pair for the DRB1*0712 allele moved |
|      |           |           | to well 9.                                 |
| 8    | Removed   | Removed   | Primer pair for the DRB1*0712 allele moved |
|      |           |           | to well 9.                                 |
| 9    | New       | New       | Primer pair for the DRB1*0712 allele.      |
| 10   | New       | New       | Primer pair for the DRB1*0713 allele.      |
| 11   | New       | New       | Primer pair for the DRB1*0714 allele.      |
| 12   | New       | New       | Primer pair for the DRB1*0715 allele.      |

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# PRODUCT DESCRIPTION

# DRB1\*07 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the DRB1\*0701 to DRB1\*0715 alleles.

#### PLATE LAYOUT

Each test consists of 12 PCR reactions in a 16 well cut PCR plate. Wells 13 to 16 are empty.

|   | <u> </u> |    |    |       |       |       |       |
|---|----------|----|----|-------|-------|-------|-------|
| 1 | 2        | 3  | 4  | 5     | 6     | 7     | 8     |
| 9 | 10       | 11 | 12 | empty | empty | empty | empty |

The 16 well cut PCR plate is marked with 'DRB1\*07'.

Well No. 1 is marked with the Lot No. '32E'.

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

**Please note:** When removing each 16 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 the DRB1\*07 alleles will be amplified by the DRB1\*07 subtyping kit. Thus, the interpretation of DRB1\*07 subtypings is not influenced by other groups of DRB1 alleles.

#### **UNIQUELY IDENTIFIED ALLELES**

All the DRB1\*07 alleles, i.e. **DRB1\*070101 to DRB1\*0715**, recognized by the HLA Nomenclature Committee in January 2008<sup>1</sup> will give rise to unique amplification patterns by the primers in the DRB1\*07 subtyping kit.

The DRB1\*07 subtyping kit cannot distinguish the DRB1\*070101 and DRB1\*070102 alleles.

<sup>1</sup>DRB1 alleles listed on the IMGT/HLA web page 2008-January-11, release 2.20.0, www.ebi.ac.uk/imgt/hla.

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### **RESOLUTION IN HOMO- AND HETEROZYGOTES**

The 14 DRB1\*07 alleles can be combined in 1105 homozygous and heterozygous combinations. Seventy-seven of these genotypes do not give rise to unique amplification patterns. The different sizes of the specific PCR products generated by primer mixes 4 and 5 have not been considered in this calculation.

```
0703,0710N = 0704,0709 = 0709,0710N
++++--- ----
+++-+-- ----
              0703,0705 = 0705,0709 = 0709,0711
+++--+-- ----
              0703,0706 = 0706,0709
              0703,0707 = 0707,0709
+++---+- ----
+++---+ ----
              0703,0708 = 0708,0709
+++---- +---
              0703,0712 = 0709,0712
              0703,0713 = 0709,0713
+++---- -+--
              0703,0714 = 0709,0714
+++---- --+-
+++----
              0703,0715 = 0709,0715
+++----
              0701,0703 = 0701,0709 = 0703,0709 = 0709,0709
++-++---
              0704,0705 = 0705,0710N = 0710N,0711
++-+--- ----
              0704,0706 = 0706,0710N
              0704,0707 = 0707,0710N
++-+---
++-+---
              0704,0708 = 0708,0710N
              0704,0712 = 0710N,0712
++-+--- +---
++-+--- -+--
              0704,0713 = 0710N,0713
++-+--- --+-
              0704,0714 = 0710N,0714
++-+---
              0704,0715 = 0710N,0715
++-+---
              0701,0704 = 0701,0710N = 0704,0710N = 0710N,0710N
++--+-- ----
              0705,0706 = 0706,0711
              0705,0707 = 0707,0711
++--+- ----
++--+--+ ----
              0705,0708 = 0708,0711
++--+-- +---
              0705,0712 = 0711,0712
              0705,0713 = 0711,0713
++--+-- -+--
++--+-- --+-
              0705,0714 = 0711,0714
++--+---
              0705,0715 = 0711,0715
++--+-- ----
              0701,0705 = 0701,0711 = 0705,0705 = 0705,0711
++---+-- ----
              0701,0706 = 0706,0706
++----
              0701,0707 = 0707,0707
              0701,0708 = 0708,0708
++----
++---- +---
              0701,0712 = 0712,0712
++---- -+--
              0701,0713 = 0713,0713
++---- --+-
              0701,0714 = 0714,0714
              0701,0715 = 0715,0715
++----
```

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# **SPECIFICITY TABLE**

# DRB1\*07 SSP subtyping

Specificities and sizes of the PCR products of the 12 primer mixes used for DRB1\*07 SSP subtyping

| Primer<br>Mix           | Size of<br>spec. PCR<br>product <sup>1</sup> | Size of control band <sup>2</sup> | Amplified DRB1*07 alleles            |
|-------------------------|--|-----------------------------------|--------------------------------------|
| 1                       | 230 bp                                       | 515 bp                            | 070101-070102, 0703-0715             |
| 2                       | 185 bp                                       | 430 bp                            | 070101-070102, 0705-0710N, 0712-0715 |
| 3                       | 185 bp                                       | 430 bp                            | 0703, 0709                           |
| <b>4</b> <sup>3,4</sup> | 90, 230<br>bp                                | 430 bp                            | 0704, 0710N                          |
| 5 <sup>5</sup>          | 190, 230<br>bp                               | 430 bp                            | 0705, 0711                           |
| 6                       | 170 bp                                       | 430 bp                            | 0706                                 |
| 7                       | 165 bp                                       | 430 bp                            | 0707                                 |
| 8                       | 165 bp                                       | 430 bp                            | 0708                                 |
| _                       |  |                                   |                                      |
| <b>9</b> <sup>3</sup>   | 105 bp                                       | 430 bp                            | 0712                                 |
| 10                      | 165 bp                                       | 515 bp                            | 0713                                 |
| 11 <sup>3</sup>         | 105 bp                                       | 515 bp                            | 0714                                 |
| 12                      | 210 bp                                       | 430 bp                            | 0715                                 |

<sup>&</sup>lt;sup>1</sup>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 DRB\*07 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 length 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.

<sup>2</sup>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 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.

Well number 1 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\*01 subtyping.

In addition, wells number 10 and 11 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

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

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

<sup>4</sup>Primer mix 4: Specific PCR fragment of 90 bp in the DRB1\*0710N allele. Specific PCR fragment of 230 bp in the DRB1\*0704 allele.

<sup>5</sup>Primer mix 5: Specific PCR fragment of 190 bp in the DRB1\*0705 allele. Specific PCR fragment of 230 bp in the DRB1\*0711 allele.

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|   | INTERPRETATION TABLE              |                                  |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
|---|-----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| DRB1*07 PCR-SSP subtyping                               |                                   |                                  |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| Amplification patterns of the DRB1*0701 to 0715 alleles |                                   |                                  |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
|   |                                   |                                  |                                   |                                   |                                   | We                                | ell5                              |                                   |                                   | •                                 |                                   |                                   |
|   | 1                                 | 2                                | 3                                 | 4                                 | 5                                 | 6                                 | 7                                 | 8                                 | 9                                 | 10                                | 11                                | 12                                |
| Length of spec.   | 230                               | 185                              | 185                               | 90                                | 190                               | 170                               | 165                               | 165                               | 105                               | 165                               | 105                               | 210                               |
| PCR product   |                                   |                                  |                                   | 230                               | 230                               |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| Length of int.  | 515                               | 430                              | 430                               | 430                               | 430                               | 430                               | 430                               | 430                               | 430                               | 515                               | 515                               | 430                               |
| pos. control <sup>1</sup>                               |                                   |                                  |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| 5'-primer(s) <sup>2</sup>                               | 14                                | 29                               | 29                                | 14                                | 14                                | 14                                | 14                                | 37                                | 57                                | 14                                | 14                                | 21                                |
|   | <sup>5'</sup> -AT A <sup>3'</sup> | <sup>5'</sup> -AgA <sup>3'</sup> | <sup>5'</sup> -AgT <sup>3'</sup>  | <sup>5'</sup> -AT A <sup>3'</sup> | <sup>5'</sup> -AT A <sup>3'</sup> | <sup>5'</sup> -AT A <sup>3'</sup> | <sup>5'</sup> -AT A <sup>3'</sup> | <sup>5</sup> '-Ag g <sup>3'</sup> | <sup>5'</sup> -CT A <sup>3'</sup> | <sup>5'</sup> -AT A <sup>3'</sup> | <sup>5'</sup> -AT A <sup>3'</sup> | <sup>5'</sup> -g AA <sup>3'</sup> |
|   | 14                                |                                  | 30                                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
|   | <sup>5'</sup> -AT A <sup>3'</sup> |                                  | <sup>5'</sup> -gA T <sup>3'</sup> |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
|   |                                   |                                  |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| 3'-primer(s) <sup>3</sup>                               | 78                                | 78                               | 78                                | 29                                | 64                                | 57                                | 55                                | 78                                | 78                                | 55                                | 35                                | 78                                |
|   | 5'-CAC3'                          | 5'-CAC3'                         | 5'-CAC3'                          | 5'T <sup>3'</sup>                 | <sup>5'</sup> -T CC <sup>3'</sup> | <sup>5'</sup> -C Ag <sup>3'</sup> | 5'-CCA3'                          | 5'-CAC3'                          | 5'-CAC3'                          | <sup>5'</sup> -g CA <sup>3'</sup> | 5'-C CC3'                         | 5'-CAC3'                          |
|   | 78                                |                                  |                                   | 77                                | 77                                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
|   | <sup>5'</sup> -gTA <sup>3'</sup>  |                                  |                                   | <sup>5'</sup> -A AT <sup>3'</sup> | <sup>5</sup> '-A gg <sup>3'</sup> |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| Well No.  | 1                                 | 2                                | 3                                 | 4                                 | 5                                 | 6                                 | 7                                 | 8                                 | 9                                 | 10                                | 11                                | 12                                |
| DRB1 allele4  |                                   |                                  |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| *070101-070102  | 1                                 | 2                                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| *0703   | 1                                 | ,                                | 3                                 |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| *0704   | 1                                 |                                  |                                   | 4                                 |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| *0705   | 1                                 | 2                                |                                   |                                   | 5                                 |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| *0706   | 1                                 | 2                                |                                   |                                   |                                   | 6                                 |                                   |                                   |                                   |                                   |                                   |                                   |
| *0707   | 1                                 | 2                                |                                   |                                   |                                   |                                   | 7                                 |                                   |                                   |                                   |                                   |                                   |
| *0708   | 1                                 | 2                                |                                   |                                   |                                   |                                   |                                   | 8                                 |                                   |                                   |                                   |                                   |
| *0709   | 1                                 | 2                                | 3                                 |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| *0710N  | 1                                 | 2                                |                                   | 4                                 |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| *0711   | 1                                 |                                  |                                   |                                   | 5                                 |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| *0712   | 1                                 | 2                                |                                   |                                   |                                   |                                   |                                   |                                   | 9                                 |                                   |                                   |                                   |
| *0713   | 1                                 | 2                                |                                   |                                   |                                   |                                   |                                   |                                   |                                   | 10                                |                                   |                                   |
| *0714   | 1                                 | 2                                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   | 11                                |                                   |
| *0715   | 1                                 | 2                                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   | 12                                |
| DRB1 allele <sup>4</sup>                                |                                   |                                  |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| Well No.  | 1                                 | 2                                | 3                                 | 4                                 | 5                                 | 6                                 | 7                                 | 8                                 | 9                                 | 10                                | 11                                | 12                                |

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<sup>1</sup>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 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.

Well number 1 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\*07 subtyping.

In addition, wells number 10 and 11 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

<sup>2</sup>The codon, in the 2<sup>nd</sup> exon, matching the specificity-determining 3'-end of the primer is given. Codon numbering as on the <a href="https://www.ebi.ac.uk/imgt/hla">www.ebi.ac.uk/imgt/hla</a> web site. The sequence of the 3 terminal nucleotides of the primer is given. Empty spaces indicate codon boundaries.

<sup>3</sup>The codon, in the 2<sup>nd</sup> exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Codon numbering as on the <a href="www.ebi.ac.uk/imgt/hla">www.ebi.ac.uk/imgt/hla</a> web site. The sequence of the 3 terminal nucleotides of the primer is given. Empty spaces indicate codon boundaries.

<sup>4</sup>The DRB1\*0702 allele has been shown to be identical to DRB1\*0701.

<sup>5</sup>Primer mix 4: Specific PCR fragment of 90 bp in the DRB1\*0710N allele. Specific PCR fragment of 230 bp in the DRB1\*0704 allele.

Primer mix 5: Specific PCR fragment of 190 bp in the DRB1\*0705 allele. Specific PCR fragment of 230 bp in the DRB1\*0711 allele.

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| CELL LINE VALIDATION SHEET |       |                |                |                   |           |           |           |           |           |           |           |           |           |           |           |           |  |
|----------------------------|-------|----------------|----------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| DRB1*07 SSP subtyping kit  |       |                |                |                   |           |           |           |           |           |           |           |           |           |           |           |           |  |
|                            |       | Well           |                |                   |           |           |           |           |           |           |           |           |           |           |           |           |  |
|                            |       |                |                |                   | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8         | 9         | 10        | 11        | 12        |  |
|                            |       |                |                | _                 |           | ~         |           | <u>_</u>  | 10        | <b>~</b>  |           |           | 6         |           |           | ~         |  |
|                            |       |                |                | Production<br>No. | 200732801 | 200732802 | 200843703 | 200732804 | 200732805 | 200732806 | 200732807 | 200843708 | 200843709 | 200843710 | 200843711 | 200843712 |  |
|                            |       |                |                | quc               | 732       | 732       | 343       | 732       | 732       | 732       | 732       | 343       | 343       | 343       | 343       | 343       |  |
|                            |       |                |                | P. So.            | .00       | 00.       | Ö         | .00       | .00       | 00.       | 00.       | lõ        | lõ        | lõ        | Ö         | Ö         |  |
| _                          | ILIVA | C cell line    | DI             | <u> </u>          | (1        | (1        | (4        | (1        | (1        | (1        | (4        | (1        | (1        | (1        | (1        | (1        |  |
| 1                          | 9001  |                | *0101          | VD1               | <u> </u>  | _         | -         | <u> </u>  | _         | _         | <u> </u>  | -         | -         | -         | _         | -         |  |
| 2                          |       | LK707          | *1502          | *0405             | <u> </u>  | -         | -         | -         | -         | -         | -         | -         | <u> </u>  | -         | -         | -         |  |
| 3                          |       | E4181324       | *1502          | 0403              | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 4                          |       | GU373          | *0301          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 5                          |       | KAS011         | *1601          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 6                          | 9353  | SM             | *0407          | *0803             | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 7                          | 9020  | QBL            | *0301          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 8                          | 9007  | DEM            | *0401          | *1602             | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 9                          | 9026  | YAR            | *0402          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 10                         | 9107  |                | *0405          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 11                         |       | PITOUT         | *0701          |                   | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 12                         | 9052  |                | *0701          |                   | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 13                         | 9067  |                | *0801          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 14                         |       | OLGA           | *0802          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 15                         | 9075  |                | *0901          |                   | _         | -         | -         | -         | -         | -         | -         | -         | <u> </u>  | -         | -         | -         |  |
| 16                         |       | SWEIG007       | *1101          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 17                         |       | WILJON         | *1501          | *4404             | -         | -         | -         | -         | -         | -         | -         | -         | <u> </u>  | -         | -         | -         |  |
| 18                         |       | 32367          | *0901          | *1101             | -         | -         | -         | -         | -         | -         | -         | -         | _         | -         | -         | -         |  |
| 19                         |       | BM16           | *1201          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 20                         |       | SLE005         | *1302          |                   | _         | Ŀ         | -         | Ŀ         | -         | Ŀ         | Ŀ         | -         | Ŀ         | -         | -         | -         |  |
| 21<br>22                   |       | AMALA<br>KOSE  | *1402<br>*1302 | *1401             | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 23                         | 9124  |                | *0803          | *1414             | H         | Ë         | Ë         |           | -         | Ë         | Ë         | H         | H         | H         | Ë         | -         |  |
| 24                         | -     | JBUSH          | *1101          | 1414              |           | -         | -         |           |           | -         | -         | -         | -         | -         |           | -         |  |
| 25                         |       | IBW9           | *0701          |                   | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 26                         |       | WT49           | *0301          |                   | Ė         | ÷         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 27                         |       | CH1007         | *0405          | *1001             | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 28                         |       | BEL5GB         | *0416          | *0701             | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 29                         | 9050  |                | *0701          |                   | +         | +         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 30                         | 9021  |                | *0302          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 31                         |       | DUCAF          | *0301          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 32                         | 9297  | HAG            | *1303          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 33                         | 9098  | MT14B          | *0404          |                   |           |           |           | -         | -         |           |           | -         | L-        | -         |           | -         |  |
| 34                         | 9104  |                | *1101          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 35                         |       | SSTO           | *0403          |                   | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 36                         |       | KT17           | *0403          | *0406             | -         | -         | -         | -         | -         | -         | -         | -         | <u> </u>  | -         | -         | -         |  |
| 37                         |       | HHKB           | *1301          |                   | -         | -         | -         | -         | -         | -         | -         | -         | <u> </u>  | -         | -         | -         |  |
| 38                         | 9099  |                | *1402          | 1.2.00            | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 39                         | 9315  |                | *0301          | *0401             | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 40                         |       | WHONP199       | *0701          | *0901             | +         | +         | -         | -         | -         | -         | -         | -         | <u> </u>  | -         | -         | -         |  |
| 41                         |       | H0301          | *1302          |                   | -         | -         | -         | -         | -         | -         | <u> </u>  | -         | <u> </u>  | -         | -         | -         |  |
| 42                         |       | TAB089         | *0803          |                   | _         | -         | -         | -         | -         | -         | -         | -         | <u> </u>  | -         | -         | -         |  |
| 43                         |       | T7526          | *0901          |                   | -         | -         | -         | -         | -         | -         | <u> </u>  | -         | -         | -         | -         | -         |  |
| 44                         | 9057  |                | *1401          |                   | -         | -         | -         | -         | -         | -         | -         | -         | <u> </u>  | -         | -         | -         |  |
| 45                         |       | SHJO           | *0701          |                   | +         | +         | -         | -         | -         | -         | <u> </u>  | -         | <u> </u>  | -         | -         | -         |  |
| 46<br>47                   |       | SCHU           | *1501          | *1201             | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |  |
| 48                         |       | TUBO<br>TER-ND | *1104          | 1201              | -         | Ŀ         | Ŀ         | Ė         | ÷         | Ŀ         | Ė         | -         | <u> </u>  | H         | Ŀ         | H         |  |
| 48                         | 9303  | TER-ND         | *0103          |                   | -         |           |           |           |           |           |           |           | -         |           |           | -         |  |

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101.118-24 – including *Taq* polymerase 101.118-24u – without *Taq* polymerase

Lot No.: 32E Lot-specific information www.olerup.com

# CERTIFICATE OF ANALYSIS

Olerup SSP® DRB1\*07 SSP

Product numbers: **101.118-24** – including *Taq* polymerase

101.118-24u – without *Tag* polymerase

Lot number: 32E

2010-April-01 Expiry date:

Number of tests: 24 Number of wells per test: 12

#### Well specifications:

| Well No. | Production No. | Well No. | Production No. |
|----------|----------------|----------|----------------|
| 1        | 2007-328-01    | 9        | 2008-437-09    |
| 2        | 2007-328-02    | 10       | 2008-437-10    |
| 3        | 2008-437-03    | 11       | 2008-437-11    |
| 4        | 2007-328-04    | 12       | 2008-437-12    |
| 5        | 2006-328-05    |          |                |
| 6        | 2007-328-06    |          |                |
| 7        | 2007-328-07    |          |                |
| 8        | 2008-437-08    |          |                |

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 solutions 3 to 12 were available. The specificities of the primers in primer solutions 4, 6 and 9 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solutions 3, 8 and 12 it was only possible to test the 3'primers, the 5'-primers were not possible to test. In primer solutions 5, 7, 10 and 11 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

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

Date of approval: 2008-April-09

Approved by:

Quality Control, Supervisor

DRB1\*07 Product Insert Page 10 of 12

101.118-24 – including *Taq* polymerase 101.118-24u – without *Taq* polymerase

Lot No.: 32E Lot-specific information www.olerup.com

# **Declaration of Conformity**

**Product name:** Olerup SSP® DRB1\*07 Product number: 101.118-24, 101.118-24u

Lot number: 32E

**Intended use:** DRB1\*07 high 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 9001:2000 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 2008-April-09

Olle Olerup Managing Director DRB1\*07 Product Insert Page 11 of 12

101.118-24 – including *Taq* polymerase 101.118-24u – without *Taq* polymerase

Lot No.: 32E Lot-specific information www.olerup.com

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101.118-24 – including *Taq* polymerase 101.118-24u – without *Taq* polymerase

Lot No.: 32E Lot-specific information www.olerup.com

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