

101.615-24/04 – including *Taq* polymerase
101.615-24u/04u – without *Taq* polymerase

Lot No.: **04X**

Olerup SSP® HLA-C*07

Product number: 101.615-24/04 – including *Taq* pol.
101.615-24u/04u - without *Taq* pol.

Lot number: 04X

Expiry date: 2017-March-01

Number of tests: 24 tests – Product No. 101.615-24/24u
4 tests – Product No. 101.615-04/04u

Number of wells per test: 86+1

CHANGES COMPARED TO THE PREVIOUS HLA-C*07 LOT (03V):

| Well | 5'-primer | 3'-primer | rationale |
|------|------------------|------------------|--|
| 18 | - | Added | 3'-primer added for the C*07:337 allele. |
| 32 | - | Added | 3'-primers added for the C*07:134 and 07:189 alleles. |
| 35 | - | Modified | 3'-primer modified for decreased tendency of primer oligomer formation. |
| 36 | Moved | Moved | Primer pair moved to well 84 for decreased tendency of primer oligomer formation. |
| 38 | Exchanged, moved | Exchanged, moved | Primer pair exchanged for decreased tendency of primer oligomer formation, primer pair moved to well 86. |
| 41 | Added | - | 5'-primer added for the C*07:234 allele. |
| 43 | - | Added | 3'-primer added for the C*07:189 allele. |
| 46 | Moved | Moved | Primer pair moved to well 85 for decreased tendency of primer oligomer formation. |
| 47 | - | Added | 3'-primer added for the C*07:222 allele. |
| 48 | - | Added | 3'-primer added for the C*07:222 allele. |
| 49 | Added | - | 5'-primers added for the C*07:259 and C*07:316 alleles. |
| 50 | - | - | Exchanged positive control primer pair for decreased tendency of primer oligomer formation. |
| 55 | Added | Added | Primer pair added for the C*07:343 allele, 5'-primer added for the C*07:234 allele. |
| 57 | Added | - | 5'-primer added for the C*07:259 allele. |
| 63 | - | Modified, added | 3'-primer modified for improved HLA-specific amplification, 3'-primer added for the C*07:301 allele. |
| 64 | Added | - | 5'-primer added for the C*07:316 allele. |
| 65 | - | Modified, added | 3'-primer modified for improved HLA-specific amplification, 3'-primer added for the C*07:136 allele. |
| 66 | - | Added | 3'-primers added for the C*07:136 and C*07:232 alleles. |
| 68 | - | Added | 3'-primer added for the C*07:242 allele. |
| 70 | - | Added | 3'-primers added for the C*07:131 and C*07:194 alleles. |
| 71 | Added | - | 5'-primer added for the C*07:347N allele. |

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| | | | |
|----|-------|-------|---|
| 72 | Added | - | 5'-primer added for the C*07:250 allele. |
| 73 | Added | Added | Primer pair added for the C*07:349 allele. |
| 74 | - | Added | 3'-primer added for the C*07:293 allele. |
| 75 | - | Added | 3'-primer added for the C*07:329N allele. |
| 77 | Added | Added | Negative control moved to well 87, primer pair added for the C*07:348 allele. |
| 78 | New | New | New primer pair for the C*07:199:01-07:199:02 alleles. |
| 79 | New | New | New primer pair added for the C*07:256 allele. |
| 80 | New | New | New primer pairs added for the C*07:359 and C*07:350N alleles. |
| 81 | New | New | New primer pair added for the C*07:231 allele. |
| 82 | New | New | New primer pair added for the C*07:288 allele. |
| 83 | New | New | New primer pairs added for the C*07:229 and C*07:361 alleles. |
| 84 | Added | Added | Primer pair added from well 36. |
| 85 | Added | Added | Primer pair added from well 46. |
| 86 | Added | Added | Primer pair added from well 38. |
| 87 | - | - | Updated negative control added from well 77 |

THE NUMBER OF WELLS is increased from 77 to 87.

ALLELE COVERAGE:

C*07:01 to C*07:374, i.e. all the currently recognized HLA-C*07 alleles, will be amplified by the primers in the HLA-C*07 SSP kit¹; www.ebi.ac.uk/imgt/hla, 2014-April-14, release 3.16.0.

The HLA-C*07 kit enables separation of the confirmed HLA-C*07 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources.

The HLA-C*07 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

The following HLA-C*07 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

| Alleles | Primer mix | Alleles | Primer mix |
|---------------------------|------------|-------------------|------------|
| C*07:29, 07:347N | 71 | C*07:118, 07:203 | 52 |
| C*07:51, 07:314, 07:351 | 19 | C*07:125, 07:374 | 54 |
| C*07:52, 07:337 | 18 | C*07:129, 07:153 | 54 |
| C*07:61N, 07:194 | 70 | C*07:132, 07:179 | 55 |
| C*07:74, 07:308 | 39 | C*07:147, 07:241 | 60 |
| C*07:78, 02:235Q | 40 | C*07:164N, 07:212 | 58 |
| C*07:93, 07:207 | 42 | C*07:165, 07:180 | 60 |
| C*07:100, 07:161 | 49 | C*07:227N, 07:254 | 30 |
| C*07:104N, 07:119, 07:124 | 50 | C*07:245, 07:342 | 45 |
| C*07:117, 07:126 | 51 | C*07:350N, 07:359 | 80 |

The HLA-C*07 subtyping kit cannot distinguish the following silent mutations: the C*07:01:01:01-07:01:04, 07:01:06-07:01:12, 07:01:14-07:01:24, 07:01:26-07:01:35 and

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07:01:37-07:01:43 alleles, the C*07:01:05 and 07:01:36 alleles, the C*07:02:01:01-07:02:59 alleles, the C*07:04:01-07:04:09, the C*07:17:01-07:17:02, the C*07:27:01-07:27:02, the C*07:31:01-07:31:02, the C*07:38:01-07:38:02, the C*07:56:01-07:56:02, the C*07:96:01-07:96:02, the C*07:108:01-07:108:02, the C*07:137:01-07:137:02, the C*07:141:01-07:141:02 alleles, the C*07:172:01-07:172:02 alleles or the C*07:199:01-07:199:02 alleles.

¹Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <http://hla.alleles.org/alleles/deleted.html>.

INFLUENCE ON THE INTERPRETATION OF HLA-C*07 SUBTYPINGS BY NON-HLA-C*07 ALLELES:

None frequently occurring.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:

No comments received.