

Olerup SSP[®] HLA-C high resolution for frequent alleles

Product number: 101.707-12 – including *Taq* polymerase
101.707-12u – without *Taq* polymerase

Lot number: 1F9

Expiry date: 2021-06-01

Number of tests: 12

Number of wells per test: 95 + 1

The HLA-C High kit has been redesigned and improved with regards to allelic detection and discrimination. The kit resolution focuses on common and well documented (CWD) alleles¹.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®] HLA-C HIGH RESOLUTION LOT (9D5)

| Well | 5'-primer | 3'-primer | rationale |
|------|-----------|-------------------|---|
| 1 | Modified | Modified | 5'-and 3'-primers modified for increased yield. |
| 10 | Modified | Removed, modified | 3'-primer for the C*08:06 allele removed, 5'-and 3'-primers modified for improved HLA-specific amplification. |
| 11 | - | - | Positive control primer pairs exchanged for improved HLA-specific amplification. |
| 13 | Added | - | 5'-primer added for the C*03:02:15 allele. |
| 18 | Added | - | 5'-primer added for increased yield. |
| 19 | - | Added, modified | 3'-primer added for the C*07:43:02 allele, modified 3'-primer added for increased yield. |
| 22 | Added | - | 5'-primer added for C*03:02:15 allele. |
| 35 | Added | Modified | 5'-primer added for the C*08:01:14, 3'-primer modified for improved HLA-specific amplification. |
| 51 | - | - | Positive control primer pairs exchanged for decreased tendency of primer oligomer formation. |
| 55 | - | Added | 3'-primer added for improved resolution of C*07:03. |
| 64 | - | Added | 3'-primer added for the C*15:05:12 allele. |
| 71 | - | Added | Modified 3'-primer added from well 86 for increased yield. |
| 73 | Added | - | 5'-primer added for the C*08:06 allele. |
| 76 | Added | - | 5'-primer added for the C*03:02:15 allele. |
| 84 | - | Modified | 3'-primer modified for improved HLA-specific amplification. |
| 85 | - | Added | 3'-primer added for the C*15:05:12 allele. |

| | | | |
|----|--------------------|-----------------|--|
| 86 | Exchanged, removed | Moved, modified | Modified 3'-primer moved to well 71, 3'-primer modified for increased yield, 5'-primers exchanged and removed for improved HLA-specific amplification. |
| 91 | Modified | - | 5'-primer modified for increased yield. |
| 93 | - | Removed | 3'-primer removed for improved HLA-specific amplification. |

THE NUMBER OF WELLS is unchanged.

¹S. J. Mack¹, P. Cano², J. A. Hollenbach¹ et al.
 Common and well-documented HLA alleles: 2012 update to the CWD catalogue. Tissue Antigens, 2013, 81, 194–203

ALLELE COVERAGE:

C*01:02 to C*18:10, i.e. all the currently recognized HLA-C alleles, will be amplified by the primers in the HLA-C high resolution for frequent alleles subtyping kit¹; www.ebi.ac.uk/imgt/hla, 2016-October-14, release 3.26.0.

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

| Alleles | Primer mix | Alleles | Primer mix |
|----------------------------------|------------|--|------------|
| C*01:06, 01:11 | 3 | C*05:10, 05:55 | 21 |
| C*01:15, 01:20, 01:60 | 6 | C*05:14, 05:16, 05:19 | 37 |
| C*02:51, 02:57 | 31 | C*06:08, 06:13 | 43 |
| C*03:09, 03:23, 03:80:02, 03:287 | 18 | C*06:15-06:16N | 78, 83 |
| C*03:21-03:22Q, 03:116:01 | 18 | C*07:22, 07:35, 07:404 | 56 |
| C*03:34, 03:44 | 80 | C*07:25, 07:137:01, 07:138, 07:352 | 56 |
| C*03:37:01-03:37:02, 03:46 | 11 | C*07:33N, 07:51 | 55 |
| C*04:08, 04:09N | 27 | C*07:37, 07:54 | 2 |
| C*04:16, 04:256 | 11 | C*07:47-07:48 | 91 |
| C*04:23, 04:31 | 88 | C*07:140-07:141:02, 07:304, 07:512, 07:514 | 5 |
| C*04:40, 04:223:02 | 31 | C*12:06,12:81 | 65 |
| C*05:06, 05:15 | 36 | C*12:07 ,12:46N | 16 |

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>.

Change in revision R01 compared to R00:

1. The expiration date has been altered due to extension of shelf-life.