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:	**2019-12-01**
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) alleles[1].

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.

[1]S. 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 kit[1]; 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

[1]Alleles 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.