OLERUPSSP ®
HLA-C*04   **Release Note**   **Page 1 of 2**
101.612-12 – including *Taq* **polymerase**
101.612-12u – without *Taq* **polymerase**
Lot No.: 5D7

Olerup SSP® HLA-C*04

Product number:	**101.612-12 – including** *Taq* **polymerase**
	101.612-12u – without *Taq* **polymerase**
Lot number:	**5D7**
Expiry date:	**2018-08-01**
Number of tests:	**12**
Number of wells per test:	**59+1**

CHANGES COMPARED TO THE PREVIOUS HLA-C*04 LOT (42Y):

Well	5'-primer	3'-primer	rationale
31	Added	-	5'-primer added for the C*04:145 allele.
33	-	Added	3'-primer added for the C*203N allele.
44	Added	-	5'-primer added for the C*04:202 allele.
45	Added	-	5'-primer added for the C*04:145 allele.
46	Added	-	5'-primer added for the C*04:205N allele.
48	Added	-	5'-primer added for the C*04:195 allele.
52	-	Added	3'-primer added for the C*04:203N allele.
55	-	Added	3'-primer added for the C*04:215N allele.
56	Added	-	5'-primer added for the C*04:195 allele.
57	Added	Added	Negative control moved to well 60. New primer pairs added for the C*04:182 and C*04:205N alleles.
58	New	New	New primer pairs added for the C*04:196 and C*04:217N alleles.
59	New	New	New primer pairs added for the C*04:202 and C*04:207 alleles.
60	-	-	Updated negative control added from well 57.

THE NUMBER OF WELLS is increased from 57 to 60 wells.

ALLELE COVERAGE:
C*04:01 to C*04:217N, i.e. all the currently recognized HLA-C*04 alleles, will be amplified by the primers in the HLA-C*04 kit [1,2]; www.ebi.ac.uk/imgt/hla, 2015-October-10, release 3.22.0.

The HLA-C*04 kit enables separation of the confirmed HLA-C*04 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*04 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

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The following HLA-C*04 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
C*04:05, 04:112	6	C*04:61, 04:96	34
C*04:23, 04:38, 04:39	21	C*04:62, 04:76	35
C*04:25, 04:40, 04:41	23	C*04:65, 04:72	33
C*04:44, 04:47	20	C*04:67, 04:93N	46
C*04:46, 04:50	27	C*04:79, 04:113	39
C*04:48, 04:75	28	C*04:81, 04:88N	43
C*04:54, 04:105N	41	C*04:114, 04:146	47
C*04:56, 04:64:01-04:64:02	40	C*04:150, 04:155	52
C*04:59Q, 04:78	32		

The HLA-C*04 primer set cannot distinguish the following silent mutations: the C*04:01:01:01-04:01:09, 04:01:11-04:01:22, 04:01:24-04:01:27, 04:01:29-04:01:33 and 04:01:35-04:01:69 alleles, the C*04:01:10 and 04:01:23 alleles, the C*04:03:01-04:03:02 alleles, the C*04:04:01-04:04:02 alleles, the C*04:15:01 and 04:15:03 alleles, the C*04:42:01-04:42:02 alleles, the C*04:64:01-04:64:02 and the C*04:94:01-04:94:02 alleles.

[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.
[4]The HLA-C*04 primer set cannot separate the C*04:03:01-04:03:02, 04:190 and C*02:49 alleles, the C*04:107 and the C*02:12 and 02:55:01-02:55:02 alleles, or the C*04:213 and the C*02:75, C*05:25, 05:42, C*06:05, 06:76:02, C*08:28, C*12:28, C*12:132, 12:135, 12:146 and C*16:55 alleles. These alleles can be distinguished by the HLA-C low resolution kit and/or the HLA-C*02, HLA-C*05, HLA-C*06, HLA-C*08, HLAC*12 or C*16 high resolution kit, respectively.

RESOLUTION IN HLA-C*04 HOMO- AND HETEROZYGOTES:
Good.

INFLUENCE ON THE INTERPRETATION OF HLA-C*04 SUBTYPINGS BY NON-HLA-C*04 ALLELES:
None frequently occurring.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:
No comments received.