OLERUP SSP

HLA-C\*04 Release Note Page 1 of 3

101.612-12 – including *Taq* polymerase 101.612-12u – without *Taq* polymerase

Lot No.: **0F2** 

## Olerup SSP® HLA-C\*04

Product number: 101.612-12 – including *Taq* polymerase

101.612-12u – without *Taq* polymerase

Lot number: 0F2

Expiry date: 2019-11-01

Number of tests: 12 Number of wells per test: 63+1

## CHANGES COMPARED TO THE PREVIOUS HLA-C\*04 LOT (5D7):

Well	5'-primer	3'-primer	rationale	
1	-	Modified	3'-primer modified for improved HLA-specific amplification.	
4	Modified	-	5'-primer modified for improved HLA-specific amplification.	
11	Added	-	5'-primer added for the C*04:01:74 allele.	
13	-	Added	3'-primer added for the C*04:255N allele.	
14	-	Added	3'-primer added for the C*04:223:01 allele.	
17	Added	-	5'-primer added for the C*04:234N allele.	
19	Added	-	5'-primer added for the C*04:238 allele, 5'-primer added from well 23.	
20	-	Added	3'-primer added for the C*04:209 allele.	
21	-	Added	3'-primer added for the C*04:218 allele.	
			Exchanged of positive control primer pairs.	
22	Added	-	5'-primer added for the C*04:226 allele.	
23	Moved	-	5'-primers moved to wells 19 and 44 for	
			improved HLA-specific amplification.	
24	Added	-	5'-primer added for increased allelic	
			resolution of the C*04:24 allele.	
26	-	Added	3'-primer added for the C*04:250 allele.	
27	-	Added	3'-primer added for the C*04:204 allele.	
28	-	Added	3'-primers added for the C*04:204 and C*04:223:01 alleles.	
29	-	Added	3'-primer added for the C*04:249 allele.	
30	Added	-	5'-primer added for the C*04:234N allele.	
31	Added	-	5'-primer added for the C*04:226 allele.	
32	-	Added	3'-primer added for the C*04:141 allele.	
33	-	Modified, added	3'-primers modified for improved HLA- specific amplification, 3'-primer added for the C*04:218 allele.	
34	-	Added	3'-primers added for the C*04:201 and C*04:253N alleles	
35	-	Added	3'-primers added for the C*04:255N allele.	
36	-	-	Exchanged positive control primer pairs for decreased tendency of primer oligomer formation.	



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38	-	-	Exchanged positive control primer pairs for improved HLA-specific amplification.
40	-	Added	3'-primer added for the C*04:201 allele.
43	-	Added	3'-primer added for the C*04:209 allele.
44	Added	-	5-primer added for the C*04:254 allele, 5'-primer added from well 23.
45	Added	-	5'-primer added for the C*04:233N allele.
46	Added	-	5'-primers added for the C*04:187 and C*04:254 alleles.
48	-	Exchanged	3'-primer exchanged for improved HLA- specific amplification.
49	-	Added	3'-primer added for the C*04:225N allele.
51	Added	-	5'-primer added from well 56.
53	-	Exchanged	3'-primer and positive control primer pairs exchanged for decreased tendency of primer oligomer formation.
54	-	Added	3'-primers added for the C*04:219 and C*04:249 alleles.
55	-	Added	3'-primers added for the C*04:225N and C*04:250 alleles.
56	Moved	Exchanged	5'-primer moved to well 51 and 3'-primer exchanged for improved HLA-specific amplification.
57	Added	-	5'-primer added for the C*04:233N allele.
59	-	-	Exchanged positive control primer pairs for improved HLA-specific amplification.
60	Added	Added	Negative Control moved to well 64, primer pair added for improved allelic resolution.
61	New	New	New primer pairs added for the C*04:206 and C*04:236N alleles.
62	New	New	New primer pairs added for the C*04:141 and C*04:253N alleles.
63	New	New	New primer pair added for the C*04:180:01-04:180:02 alleles.
64	-	-	Negative control added from well 60.

THE NUMBER OF WELLS is increased from 60 to 64 wells.

## **A**LLELE COVERAGE:

C\*04:01 to C\*04:257, i.e. all the currently recognized HLA-C\*04 alleles, will be amplified by the primers in the HLA-C\*04 kit <sup>1,2</sup>; <a href="www.ebi.ac.uk/imgt/hla">www.ebi.ac.uk/imgt/hla</a>, 2016-October-14, release 3.26.0.

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.

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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.

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*04:20, 04:238	19	C*04:62, 04:76	35
C*04:23, 04:38, 04:39	21	C*04:65, 04:72	33
C*04:25, 04:41	23	C*04:67, 04:93N, 04:187	46
C*04:44, 04:47	20	C*04:79, 04:113	39
C*04:46, 04:50	27	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*04:139, 04:226	22
C*04:59Q, 04:78	32	C*04:150, 04:155	52

<sup>&</sup>lt;sup>1</sup>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 <a href="http://hla.alleles.org/alleles/deleted.html">http://hla.alleles.org/alleles/deleted.html</a>.

## **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.