

Olerup SSP® HLA-C*04

Product number: 101.612-12 – including *Taq* polymerase
101.612-12u – without *Taq* polymerase
Lot number: 79N
Expiry date: 2015-January-01
Number of tests: 12
Number of wells per test: 47

CHANGES COMPARED TO THE PREVIOUS HLA-C*04 LOT (12M):

Well	5'-primer	3'-primer	rationale
10	-	Added	Improved yield of HLA-specific PCR product.
18	-	Added	3'-primer added for the C*04:94:01-04:94:02 alleles.
25	-	Added	3'-primer added for the C*04:94:01-04:94:02 alleles.
31	Added	Added	Primer pair added for the C*04:95N allele.
34	-	Added	3'-primer added for the C*04:96 allele.
39	Added	Added	Primer pair added for the C*04:95N allele.
41	Added	Added	Primer pair added for the C*04:105N allele.
43	-	Modified, added	Improved specificity of primer pair, 3'-primer added for the C*04:88N allele.
45	Added	-	5'-primer added for the C*04:103 allele.
46	Added	Added	Primer pair added for the C*04:93N allele.
47	Exchanged	Exchanged, added	Exchanged primer pair for improved specificity, 3'-primer added for the C*04:106 allele.

THE NUMBER OF WELLS is unchanged.

ALLELE COVERAGE:

C*04:01 to C*04:112, i.e. all the currently recognized HLA-C*04 alleles, will be amplified by the primers in the HLA-C*04 kit¹; www.ebi.ac.uk/imgt/hla, 2011-April-12, release 3.8.0.

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 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 and 04:01:29-04:01:37 alleles, the C*04:01:10 and 04:01:23 alleles, the C*04:04:01-04:04:02 alleles, the C*04:15:01 and 04:15:03 alleles and the C*04:94:01-04:94:02 alleles.

In this lot of the HLA-C*04 subtyping kit, primer mix 42 does not amplify the C*04:82 allele. Thus, this lot of the HLA-C*04 subtyping kit cannot distinguish the C* 04:01:01:01-04:01:09, 04:01:11-04:01:22, 04:01:24-04:01:27 and 04:01:29-04:01:37 alleles and the C*04:82 allele.

¹The C*04:15:02, C*04:44 and C*04:47 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 20.

The C*04:23, C*04:38 and C*04:39 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 21.

The C*04:25, C*04:40 and C*04:41 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 23.

The C*04:46 and C*04:50 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 27.

The C*04:48 and C*04:75 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 28.

The C*04:54 and C*04:105N alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 41.

The C*04:56 and C*04:64 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 40.

The C*04:59Q and C*04:78 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 32.

The C*04:61 and C*04:96 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 34.

The C*04:62 and C*04:76 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 35.

The C*04:65 and C*04:72 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 33.

The C*04:67 and C*04:93N alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 46.

The C*04:81 and C*04:88N alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 43.

The C*04:84 and C*04:106 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 47.

²The HLA-C*04 primer set cannot separate the C*04:03 and 02:49 alleles or the C*04:107 and the C*02:12 and 02:55 alleles. These alleles can be distinguished by the HLA-C low resolution kit and/or the HLA-C*02 high resolution kit.

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.