⊙LERUPSSP®DQB1*03 Release Note Page 1 of 2

101.214-24/06 – including *Taq* polymerase 101.214-24u/06u – without *Taq* polymerase

Lot No.: 4D9

Olerup SSP® DQB1*03

Product number: 101.214-24/06 – including *Taq* pol.

101.214-24u/06u – without *Taq* pol.

Lot number: 4D9

Expiry date: 2018-08-01

Number of tests: 24 test – Product No. 101.214-24/24u

6 tests - Product No. 101.214-06/06u

Number of wells per test: 59+1

CHANGES COMPARED TO THE PREVIOUS DQB1*03 LOT (69Y):

Well	5'-primer	3'-primer	rationale
8	Modified	Modified	Modified 3'-and 5'-primers for increased yield of the DQB1*03:16 allele.
15	Modified	-	Modified 5'-primer for improved HLA-specific amplification.
25	-	Added	3'-primer added for the DQB1*03:206 allele.
34	-	Added	3'-primer added for the DQB1*03:198 allele.
35	-	Added	3'-primer added for the DQB1*03:190 allele.
42	Added	-	5'-primer added for the DQB1*03:188 allele.
43	-	Added	3'-primer added for the DQB1*03:198 allele.
44	Added	-	5'-primer added for the DQB1*03:211 allele.
45	Added	-	5'-primer added for the DQB1*03:204 allele.
46	-	Added	3'-primer added for the DQB1*03:191 allele.
49	-	Added	3'-primers added for the DQB1*03:182 and DQB1*03:191 alleles.
50	-	Added	3'-primers added for the DQB1*03:182 and DQB1*03:206 alleles.
51	-	Added	3'-primer added for the DQB1*03:213N allele.
52	Added	-	5'-primer added for the DQB1*03:188 allele.
53	Added	-	5'-primer added for the DQB1*03:204 allele.
54	Added	-	5'-primers added for the DQB1*03:170 and DQB1*03:181 alleles.
56	Added	-	5'-primer added for the DQB1*03:170 allele.
57	Added	-	5'-primer added for the DQB1*03:196 allele.
58		Added	3'-primer added for the DQB1*03:197Q allele.
59	Added	Added	Negative control moved to well 60, primer pair added for the DQB1*03:138 allele.
60	-	-	Negative control added from well 59.

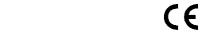
THE NUMBER OF WELLS is increased from 59 to 60 wells.

ALLELE COVERAGE:

May 2017

Rev. No.: 01

DQB1*03:01 to DQB1*03:215, i.e. all the currently recognized DQB1*03 alleles, will be amplified by the primers in the DQB1*03 subtyping kit¹, www.ebi.ac.uk/imgt/hla, 2015-October-10¹, release 3.22.0.



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The DQB1*03 kit enables separation of the confirmed DQB1*03 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. Current allele confirmation status for DQB1*03 alleles is listed below.

The DQB1*03 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 DQB1*03 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix
DQB1*03:40, 03:137	9
DQB1*03:169, 03:196	57

The DQB1*03 subtyping kit cannot distinguish the following silent mutations: the DQB1*03:01:01-03:01:02, 03:01:04-03:01:07, 03:01:09-03:01:12, 03:01:14, 03:01:16-03:01:24, 03:01:26-03:01:31, the DQB1*03:01:13, 03:01:15 and 03:01:25, the DQB1*03:02:01-03:02:19, the DQB1*03:03:02:01-03:03:05 and DQB1*03:03:07-03:03:13, the DQB1*03:04:01-03:04:02, the DQB1*03:05:01-03:05:04, the DQB1*03:14:01-03:14:02 and the DQB1*03:17:01-03:17:02 alleles.

RESOLUTION IN DQB1*03 HOMOZYGOTES: Good.

INFLUENCE ON THE INTERPRETATION OF DQB1*03 SUBTYPINGS BY NON-DQB1*03 ALLELES:

None of importance.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:

In primer mix 8, the 5'-and 3'-primers were modified for increased yield of the DQB1*03:16 allele.

Changes in revision R01 compared to R00:

1. The section "Allele coverage" has been corrected.

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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.