Olerup SSP® DQB1*02

Product number:	**101.213-24 – including *Taq* polymerase** **101.213-24u – without *Taq* polymerase**
Lot number:	**8E9**
Expiry date:	**2019-10-01**
Number of tests:	**24**
Number of wells per test:	**31+1**

CHANGES COMPARED TO THE PREVIOUS DQB1*02 LOT (98Y):

Well	5'-primer	3'-primer	rationale
8	Moved	Moved	Primer pair moved to well 12 and 20 for decreased tendency of primer oligomer formation and improved HLA-specific amplification.
12	Added	-	5'-primer added from well 8 for improved HLA-specific amplification.
18	Moved	Moved	Primer pair moved to well 30 for improved HLA-specific amplification.
19	Moved	Moved	Primer pair modified and moved to well 31 for improved HLA-specific amplification.
20	Added	-	5'-primer added from well 8 for improved HLA-specific amplification.
21	Moved	-	5'-primer moved to well 30 for improved HLA-specific amplification.
24	Added	Added	Negative Control moved to well 32, primer pairs added for the DQB1*02:42 and DQB1*02:51 alleles.
25	New	New	New primer pairs added for the DQB1*02:46 and DQB1*02:51 alleles.
26	New	New	New primer pair added for the DQB1*02:50 allele.
27	New	New	New primer pairs added for the DQB1*02:62 and DQB1*02:72 alleles.
28	New	New	New primer pair added for the DQB1*02:64 allele.
29	New	New	New primer pair added for the DQB1*02:67N allele.
30	Added, modified	Added	Primer pairs added from well 18 and 21, 5'-primer modified for improved HLA-specific amplification.
31	Added	Added	Modified primer pair added from well 19 for improved HLA-specific amplification.
32	Added	Added	Negative Control added from well 24.

THE NUMBER OF WELLS is increased from 24 to 32 wells.

ALLELE COVERAGE:

DQB1*02:01 to DQB1*02:78, i.e. all the currently recognized DQB1*02 alleles, will be amplified by the primers in the DQB1*02 subtyping kit[1]; www.ebi.ac.uk/imgt/hla, 2016-October-14, release 3.26.0.

The DQB1*02 kit enables separation of the confirmed DQB1*02 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 DQB1*02 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 DQB1*02 kit cannot distinguish the silent mutation in the DQB1*02:01:01-02:01:24 alleles, the DQB1*02:02:01:01-02:02:03 alleles, the DQB1*02:07:01-02:07:02 alleles or the DQB1*02:14:01-02:14:02 alleles.

The following DQB1*02 alleles can be distinguished by the different sizes of the specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
DQB1*02:07:01-02:07:02, 02:16	9	DQB1*02:20N, 02:22	16
DQB1*02:09, 02:24	11	DQB1*02:21, 02:35	15
DQB1*02:15, 02:29	18	DQB1*02:27, 02:28	22
DQB1*02:18N, 02:34	14	DQB1*02:41, 02:53Q	23

[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.

RESOLUTION IN DQB1*02 HOMO- AND HETEROZYGOTES:

Very good.

INFLUENCE ON THE INTERPRETATION OF DQB1*02 SUBTYPINGS BY NON-DQB1*02 ALLELES:

None of importance.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:

In primer mix 8, a primer pair was moved to well 12 and 20 for decreased tendency of primer oligomer formation and improved HLA-specific amplification.