

**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):**

| <b>Well</b> | <b>5'-primer</b> | <b>3'-primer</b> | <b>rationale</b>   |
|-------------|------------------|------------------|--|
| 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:**

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 kit<sup>1</sup>, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), 2015-October-10<sup>1</sup>, release 3.22.0.

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\*03:01:01:01-03:01:02, 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.

<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 <http://hla.alleles.org/alleles/deleted.html>.

#### 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.