# *Olerup* SSP<sup>®</sup> DQB1 high resolution for frequent alleles

| Product number:           | 101.221-12 – including <i>Taq</i> polymerase |  |  |
|---------------------------|--|--|--|
|                           | 101.221-12u – without <i>Taq</i> polymerase  |  |  |
| Lot number:               | 7N3  |  |  |
| Expiry date:              | 2026-02-01                                   |  |  |
| Number of tests:          | 12 tests                                     |  |  |
| Number of wells per test: | 95+ 1  |  |  |

#### CHANGES COMPARED TO THE PREVIOUS DQB1 HIGH RESOLUTION LOT (5L5):

| Well | 5'-primer | 3'-primer | rationale   |
|------|-----------|-----------|---|
| 18   | -         | Added     | 3'-primer added for improved yield of the DQB1*03:24 allele.  |
| 39   | -         | Added     | 3'-primer added for improved yield of the DQB1*03:24 allele.  |
| 41   | Added     | -         | 5'-primer added for the DQB1*05:27 allele.                    |
| 49   | Added     | -         | 5'-primer added for improved yield of the DQB1*06:103 allele. |
| 57   | Added     | -         | 5'-primer added for improved yield of the DQB1*05:27 allele.  |

THE NUMBER OF WELLS is unchanged.

#### ALLELE COVERAGE:

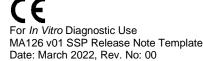
DQB1\*02:01:01:01 to 02:198, DQB1\*03:01:01:01 to 03:478, DQB1\*04:01:01:01 to 04:90, DQB1\*05:01:01:01 to 05:294 and DQB1\* 06:01:01:01 to 06:423N, i.e. all the currently recognized DQB1 alleles, will be amplified by the primers in the DQB1 high resolution subtyping kit<sup>1,2</sup>; www.ebi.ac.uk/imgt/hla, 2022-January-13, release 3.47.0.

The DQB1 high resolution kit enables separation of the confirmed DQB1 alleles as listed in the IMGT/HLA database 3.27.0. 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 high resolution kit also enables identification of many null and alternatively expressed alleles.

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

| Alleles                    | Primer mix | Alleles                              | Primer mix |
|----------------------------|------------|--------------------------------------|------------|
| DQB1*02:15, 02:30          | 67         | DQB1*04:36N, 04:43                   | 54         |
| DQB1*02:23, 02:28          | 68         | DQB1*05:10, 05:23                    | 54         |
| DQB1*02:29, 02:31          | 69         | DQB1*05:11:01-05:11:02,<br>05:20:02  | 58         |
| DQB1*02:99, 02:106         | 54         | DQB1*05:12, 05:159, 05:242, 05:246   | 54         |
| DQB1*03:03:06, 03:40       | 12         | DQB1*05:13, 05:24                    | 59         |
| DQB1*03:13, 03:47, 03:458  | 17         | DQB1*05:17, 05:47, 05:287            | 54         |
| DQB1*03:31, 03:87          | 35         | DQB1*05:25, 05:112                   | 34         |
| DQB1*03:35, 03:246, 03:328 | 49         | DQB1*06:02:19, 06:48:01-<br>06:48:02 | 62         |
| DQB1*03:36, 03:51, 03:330  | 51         | DQB1*06:31, 06:145                   | 35         |
| DQB1*03:46, 03:252, 03:271 | 50         | DQB1*06:35, 06:45                    | 35         |



#### LERUP SSP<sup>\*</sup>

#### DQB1 high resolution for frequent alleles 101.221-12 – including *Taq* pol. Release Note 101.221-12u – without *Taq* pol. L ot No : **7N3**

| Lot No.: <b>/ N3</b> |   |    |                      |    |  |  |  |
|----------------------|---|----|----------------------|----|--|--|--|
|                      | DQB1*03:54, 03:438                                  | 13 | DQB1*06:70, 06:76    | 80 |  |  |  |
|                      | DQB1*03:57, 03:353                                  | 12 | DQB1*06:102N, 06:104 | 90 |  |  |  |
|                      | DQB1*03:115, 03:309                                 | 54 | DQB1*06:109, 06:225  | 54 |  |  |  |
|                      | DQB1*03:116, 03:243,<br>03:317:01-03:317:02, 03:432 | 66 | DQB1*06:110, 06:185  | 54 |  |  |  |
|                      | DQB1*03:143, 03:257                                 | 50 | DQB1*06:151, 06:208  | 35 |  |  |  |
|                      | DQB1*04:05, 04:15                                   | 30 | DQB1*06:188, 06:273  | 38 |  |  |  |
|                      | DQB1*04:32, 04:66                                   | 17 |                      |    |  |  |  |

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

<sup>2</sup>The DQB1 high primer set cannot separate the following alleles. These alleles can be distinguished by the DQB1\*05 kit.

#### Alleles

DQB1\*05:03:14, 05:03:20, 05:43:01

## **RESOLUTION IN DQB1 HOMOZYGOTES AND HETEROZYGOTES:**

Very good.

### MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:

In primer mixes 18 and 39 a 3'-primer was added for improved yield of the \*03:24 allele.

In primer mixes 41 and 57 a 5'-primer was added for improved yield of the \*05:27 allele.

In primer mix 49 a 5'-primer added for improved yield of the \*06:103 allele.

