

Lot No.: **9H7**

Olerup SSP® DQB1 high resolution for frequent alleles

Product number: 101.221-12 – including *Taq* polymerase
101.221-12u – without *Taq* polymerase
Lot number: 9H7
Expiry date: 2023-11-01
Number of tests: 12 tests
Number of wells per test: 95+ 1

CHANGES COMPARED TO THE PREVIOUS DQB1 HIGH RESOLUTION LOT (4H0):

Well	5'-primer	3'-primer	rationale
14	Moved	-	5'-primer moved to primer mix 43 for decreased primer oligomer formation.
15	Modified	Modified	5'- and 3'-primer modified for improved HLA-specific amplification.
17	-	Removed	Redundant 3'-primer was removed.
21	Modified	Modified	5'- and 3'-primer have been optimized for increased yield.
40	Moved	-	5'-primer moved to primer mixes 49 and 57 for improved HLA-specific amplification.
43	Added	-	5'-primer added from primer mix 14.
47	Modified	Modified	5'- and 3'-primer have been optimized for increased yield.
49	Added	-	5'-primer added from primer mix 40.
51	-	Removed	Redundant 3'-primer was removed. Exchanged positive control primer pair for improved HLA-specific amplification.
57	Added	-	5'-primer added from primer mix 40.
66	-	-	Exchanged positive control primer pair for decreased primer oligomer formation.

THE NUMBER OF WELLS is unchanged.

ALLELE COVERAGE:

DQB1*02:01:01 to 02:112, DQB1* 03:01:01:01 to 03:298, DQB1*04:01:01 to 04:52, DQB1*05:01:01:01 to 05:166 and DQB1* 06:01:01 to 06:286, i.e. all the currently recognized DQB1 alleles, will be amplified by the primers in the DQB1 high resolution subtyping kit^{1,2}; www.ebi.ac.uk/imgt/hla, 2018-October-18, release 3.34.0.

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*05:10, 05:23	54
DQB1*02:16, 02:20N	64	DQB1*05:13, 05:24	59
DQB1*02:23, 02:28	68	DQB1*05:17, 05:47	54
DQB1*02:29, 02:31	69	DQB1*05:25, 05:112	34
DQB1*03:31, 03:87	35	DQB1*06:02:19, 06:48:01-06:48:02	62
DQB1*03:35, 03:246	49	DQB1*06:31, 06:145	35
DQB1*03:36, 03:51	51	DQB1*06:35, 06:45	35
DQB1*03:59, 03:71	43	DQB1*06:70, 06:76	80
DQB1*03:66N, 03:224	42	DQB1*06:75N, 06:80	84
DQB1*03:116, 03:243	66	DQB1*06:102N, 06:104	90
DQB1*03:143, 03:257	50	DQB1*06:109, 06:225	54
DQB1*04:03:01, 04:12	42	DQB1*06:110, 06:185	54
DQB1*04:05, 04:15	30	DQB1*06:151, 06:208	35
DQB1*04:36N, 04:43	54		

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>.

²The DQB1 high primer set cannot separate the DQB1*05:03:14 from the DQB1*05:43:01 alleles. These alleles can be distinguished by the DQB1*05 kit.

RESOLUTION IN DQB1 HOMOZYGOTES AND HETEROZYGOTES:

Very good.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:

No comments received.