

101.212.24/04 – including *Taq* pol., IFU-01
 101.212.24u/04u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **26R**

Lot-specific information
Olerup SSP[®] DQB1*06

Product number:	101.212-24/04 – including <i>Taq</i> pol. 101.212-24u/04u – without <i>Taq</i> pol.
Lot number:	26R
Expiry date:	2015-April-01
Number of tests:	24 test – Product No. 101.212-24/24u 4 tests – Product No. 101.212-04/04u
Number of wells per test:	32
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 26R.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®] DQB1*06 Lot (08N)

The DQB1*06 specificity and interpretation tables have been updated for the DQB1 alleles described since the previous *Olerup SSP[®] DQB1*06* lot (Lot No. 08N).

The Lot-specific information for DQB1*06 including and without *Taq* polymerase is described in one common Product Insert.

The primers of the wells detailed below have been exchanged, added or modified compared to the previous lot.

Well	5'-primer	3'-primer	rationale
13	-	Added	3'-primer added for the DQB1*06:48 allele.
16	Added	Added	Primer pair added for the DQB1*06:52 allele.
25	Added	-	5'-primer added for the DQB1*06:49 allele.
28	Added	Added	Primer pair added for the DQB1*06:50 allele, exchanged positive control primer pair.
30	Modified	-	Modified 5'-primer for improved yield of HLA-specific PCR product.
32	Exchanged	Exchanged	Exchanged primer pair for improved yield of HLA-specific PCR product.

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Changes in revision R01 compared to R00:

1. Primer mix 25 does not amplify the DQB1*06:49 allele. This has been corrected in the Specificity and Interpretation tables.

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 101.212.24u/04u – without *Taq* pol., IFU-02

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PRODUCT DESCRIPTION

DQB1*06 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the DQB1*06:01 to DQB1*06:52 alleles.

Please note that DQB1 amplifications usually are somewhat less pronounced than e.g. DRB and DQA1 amplifications even when using the same DNA preparation and exactly the same experimental procedures.

PLATE LAYOUT

Each test consists of 32 PCR reactions in a 32 well cut PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32

The 32 well cut PCR plate is marked with 'DQB1*06' in silver/gray ink.

Well No. 1 is marked with the Lot No. '26R'.

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

The PCR plates are covered with a PCR-compatible foil.

Please note: When removing each 32 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

Only the DQB1*06 alleles will be amplified by the DQB1*06 subtyping kit, except that the DQB1*03:23 allele will be amplified by primer mix 5, the DQB1*03:30 allele will be amplified by primer mixes 13 and 24 and the 04:01:01-04:03:02 and 04:06-04:08 alleles will be amplified by primer mix 24. Thus, the interpretation of DQB1*06 subtypings is only influenced by a few non-DQB1*06 alleles and not by other groups of DQB1 alleles or the DQB2 and DQB3 genes.

UNIQUELY IDENTIFIED ALLELES

All the DQB1*06 alleles, i.e. **DQB1*06:01 to DQB1*06:52**, recognized by the HLA Nomenclature Committee in July 2012¹ will give rise to unique amplification patterns by the primers in the DQB1*06 subtyping kit.

The DQB1*06 subtyping kit cannot distinguish the silent mutations in the DQB1*06:01:01-06:01:06 alleles, the DQB1*06:02:01-06:02:02 alleles, the DQB1*06:03:01-06:03:02 alleles or the DQB1*06:04:01 and 06:04:03 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2012-July-12, release 3.9.0, www.ebi.ac.uk/imgt/hla.

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101.212.24u/04u – without *Taq* pol., IFU-02

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Lot No.: 26R

Lot-specific information

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 65 alleles generate 57 amplification patterns that can be combined in 1653 homozygous and heterozygous combinations. 171 of these genotypes do not give rise to unique amplification patterns. The different lengths of the specific PCR products were not considered in these calculations.

++-----	-----	-----	-----+-	*06:01:01, *06:43 = *06:43, *06:43
-+----++	-----	-----	-----++	*06:11:01, *06:11:02 = *06:11:02, *06:11:02
--+-----	-----	-----+	-----++	*06:02:01, *06:47 = *06:47, *06:47
----+---	+-----	-----+	+-----++	*06:08:01, *06:08:01 = *06:08:01, *06:08:02
-+----++	-----	-----+	-----++	*06:11:01, *06:26N = *06:11:02, *06:26N
--+-----	-----+	-----+	-----++	*06:37, *06:37 = *06:37, *06:48
-----++	+-----	-----	-----++	*06:04:01, *06:34 = *06:34, *06:34
-----++	+-----	-----+	-----++	*06:04:01, *06:38 = *06:38, *06:38
-----++	+-----	-----+	-----++	*06:04:01, *06:25 = *06:04:01, *06:36 = *06:36, *06:36
-----++	+-----+	-----	-----++	*06:04:01, *06:52 = *06:52, *06:52
----+---	+-----	-----	-----++	*06:04:01, *06:04:02 = *06:04:02, *06:04:02
+++-----	-----	-----+	-----++	*06:01:01, *06:47 = *06:02:01, *06:43 = *06:43, *06:47
--+-----	-----+	-----+	-----++	*06:15, *06:15 = *06:15, *06:46
-+----++	+-----	-----+	+-----++	*06:08:01, *06:11:01 = *06:08:02, *06:11:01
--+-----	-----+	-----+	+-----++	*06:14:02, *06:29 = *06:14:02, *06:49
+++-----	+-----	-----+	+-----++	*06:18, *06:49 = *06:27, *06:49
----+---	+-----	-----+	+-----++	*06:08:01, *06:41 = *06:08:02, *06:41
-+----++	-----	-----+	+-----++	*06:11:01, *06:41 = *06:11:02, *06:41
-----++	+-----	-----+	-----++	*06:09, *06:25 = *06:09, *06:36
-----++	+-----	-----+	-----++	*06:04:01, *06:42 = *06:09, *06:17
----+---	+-----	-----+	-----++	*06:04:02, *06:25 = *06:04:02, *06:36
----+---	+-----	-----+	-----++	*06:04:01, *06:07:02 = *06:07:02, *06:38
----+---	-----	-----+	+-----++	*06:03:01, *06:44 = *06:44, *06:44
----+---	+-----	-----+	+-----++	*06:03:01, *06:08:01 = *06:03:01, *06:08:02
-+----++	+-----	-----	-----++	*06:04:01, *06:11:01 = *06:04:02, *06:11:01 = *06:04:02, *06:18
-+----++	-----	-----+	+-----++	*06:03:01, *06:11:01 = *06:03:01, *06:11:02
----+---	+-----	-----+	+-----++	*06:08:01, *06:40 = *06:08:02, *06:40
----+---	+-----	-----+	+-----++	*06:08:01, *06:28 = *06:08:02, *06:28
----+---	+-----	-----+	+-----++	*06:08:01, *06:26N = *06:08:02, *06:26N
----+---	+-----	-----+	+-----++	*06:08:01, *06:30 = *06:08:02, *06:30
----+---	+-----	-----+	+-----++	*06:08:01, *06:31 = *06:08:02, *06:31
----+---	+-----	-----+	+-----++	*06:08:01, *06:32 = *06:08:02, *06:32
--+-----	-----+	-----+	-----++	*06:15, *06:22 = *06:22, *06:46
--+-----	-----+	-----+	+-----++	*06:14:01, *06:14:01 = *06:14:01, *06:14:02
-+----++	-----	-----+	+-----++	*06:11:01, *06:40 = *06:11:02, *06:40
-+----++	-----	-----+	+-----++	*06:11:01, *06:28 = *06:11:02, *06:28
-+----++	+-----	-----+	+-----++	*06:11:01, *06:31 = *06:11:02, *06:31
-+----++	+-----	-----+	+-----++	*06:08:01, *06:11:02 = *06:08:02, *06:11:02
++++-----	-----	-----+	+-----++	*06:24, *06:30 = *06:30, *06:49
-----+++	+-----	-----	-----++	*06:12, *06:25 = *06:12, *06:36
----+---	+-----	-----	+-----++	*06:04:01, *06:32 = *06:04:02, *06:32
----+---	+-----	-----+	-----++	*06:04:01, *06:07:01 = *06:04:02, *06:07:01 = *06:04:02, *06:07:02
----+---	+-----	-----+	+-----++	*06:08:01, *06:44 = *06:08:02, *06:44
-+----++	-----	-----+	+-----++	*06:11:01, *06:44 = *06:11:02, *06:44
-+----++	-----+	-----+	+-----++	*06:14:01, *06:29 = *06:14:01, *06:49
-+----++	-----+	-----+	-----++	*06:11:02, *06:37 = *06:26N, *06:37 = *06:26N, *06:48



101.212.24/04 – including *Taq* pol., IFU-01
101.212.24u/04u – without *Taq* pol., IFU-02

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Lot No.: 26R

Lot-specific information

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-----+-- +-----+-- +-----+-- +-----+-- *06:14:01, *06:41 = *06:14:02, *06:41
-----+-- +-----+-- +-----+-- +-----+-- *06:04:01, *06:08:01 = *06:04:02, *06:08:01 =
*06:04:02, *06:08:02
-----+-- +-----+-- +-----+-- +-----+-- *06:04:01, *06:30 = *06:04:02, *06:30
-----+-- +-----+-- +-----+-- +-----+-- *06:04:01, *06:26N = *06:04:02, *06:26N
-----+-- +-----+-- +-----+-- +-----+-- *06:04:01, *06:46 = *06:38, *06:46
-----+-- +-----+-- +-----+-- +-----+-- *06:03:01, *06:14:01 = *06:03:01, *06:14:02
-----+-- +-----+-- +-----+-- +-----+-- *06:04:01, *06:11:02 = *06:04:02, *06:11:02
-----+-- +-----+-- +-----+-- +-----+-- *06:04:01, *06:50 = *06:34, *06:50
-----+-- +-----+-- +-----+-- +-----+-- *06:02:01, *06:03:01 = *06:03:01, *06:49
-----+-- +-----+-- +-----+-- +-----+-- *06:01:01, *06:44 = *06:03:01, *06:43 = *06:43, *06:44
-----+-- +-----+-- +-----+-- +-----+-- *06:14:01, *06:40 = *06:14:02, *06:40
-----+-- +-----+-- +-----+-- +-----+-- *06:14:01, *06:28 = *06:14:02, *06:28
-----+-- +-----+-- +-----+-- +-----+-- *06:14:01, *06:26N = *06:14:02, *06:26N
-----+-- +-----+-- +-----+-- +-----+-- *06:14:01, *06:31 = *06:14:02, *06:31
-----+-- +-----+-- +-----+-- +-----+-- *06:33, *06:40 = *06:40, *06:49
-----+-- +-----+-- +-----+-- +-----+-- *06:11:01, *06:14:01 = *06:11:02, *06:14:01 =
*06:11:02, *06:14:02
-----+-- +-----+-- +-----+-- +-----+-- *06:20, *06:31 = *06:31, *06:49
-----+-- +-----+-- +-----+-- +-----+-- *06:28, *06:45 = *06:31, *06:35
-----+-- +-----+-- +-----+-- +-----+-- *06:16, *06:34 = *06:50, *06:52
-----+-- +-----+-- +-----+-- +-----+-- *06:04:01, *06:41 = *06:04:02, *06:41
-----+-- +-----+-- +-----+-- +-----+-- *06:02:01, *06:44 = *06:03:01, *06:47 = *06:44, *06:47
= *06:44, *06:49
-----+-- +-----+-- +-----+-- +-----+-- *06:02:01, *06:40 = *06:03:01, *06:33
-----+-- +-----+-- +-----+-- +-----+-- *06:02:01, *06:31 = *06:03:01, *06:20
-----+-- +-----+-- +-----+-- +-----+-- *06:14:01, *06:44 = *06:14:02, *06:44
-----+-- +-----+-- +-----+-- +-----+-- *06:07:01, *06:08:01 = *06:07:01, *06:08:02
-----+-- +-----+-- +-----+-- +-----+-- *06:20, *06:40 = *06:31, *06:33
-----+-- +-----+-- +-----+-- +-----+-- *06:03:01, *06:04:01 = *06:03:01, *06:04:02 = *06:39,
*06:41
-----+-- +-----+-- +-----+-- +-----+-- *06:04:01, *06:40 = *06:04:02, *06:40
-----+-- +-----+-- +-----+-- +-----+-- *06:04:01, *06:28 = *06:04:02, *06:28
-----+-- +-----+-- +-----+-- +-----+-- *06:07:02, *06:08:01 = *06:38, *06:41
-----+-- +-----+-- +-----+-- +-----+-- *06:04:01, *06:31 = *06:04:02, *06:31
-----+-- +-----+-- +-----+-- +-----+-- *06:33, *06:44 = *06:40, *06:47
-----+-- +-----+-- +-----+-- +-----+-- *06:20, *06:44 = *06:31, *06:47
-----+-- +-----+-- +-----+-- +-----+-- *06:04:01, *06:44 = *06:04:02, *06:44

```

*06:01:01 = *06:01:01-06:01:06
*06:02:01 = *06:02:01-06:02:02
*06:03:01 = *06:03:01-06:03:02
*06:04:01 = *06:04:01 and 06:04:03



101.212.24/04 – including *Taq* pol., IFU-01
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Lot No.: **26R**

Lot-specific information
SPECIFICITY TABLE

DQB1*06 SSP subtyping

Specificities and sizes of the PCR products of the 32 primer mixes used for
 DQB1*06 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified DQB1*06 alleles ³	Amplified non-DQB1*06 alleles ⁴
1	220 bp	515 bp	*06:01:01-06:01:06, 06:35, 06:43, 06:45	
2	210 bp	430 bp	*06:01:01-06:02:02, 06:05:02 ² -06:06 ² , 06:10-06:11:02, 06:13, 06:16, 06:18-06:20, 06:24, 06:29, 06:33, 06:35, 06:37, 06:43, 06:45, 06:47-06:50	
3	185 bp	430 bp	*06:02:01-06:02:02, 06:14:01-06:16, 06:19-06:20, 06:23-06:24, 06:33, 06:37, 06:46-06:50	
4	130 bp	430 bp	*06:03:01-06:03:02, 06:07:01-06:07:02, 06:11:02, 06:14:01, 06:26N, 06:28, 06:30-06:32, 06:40-06:41, 06:44	
5	160 bp	430 bp	*06:03:01-06:03:02, 06:04:02, 06:07:01, 06:08:01, 06:11:01-06:11:02, 06:26N, 06:28, 06:30-06:32, 06:40-06:41, 06:44	*03:23
6	170 bp	515 bp	*06:03:01-06:03:02, 06:08:01-06:08:02, 06:11:02-06:12, 06:14:01, 06:21, 06:26N, 06:28, 06:31, 06:40-06:41, 06:44	
7	210 bp	515 bp	*06:04:01-06:04:03, 06:07:01-06:07:02, 06:17, 06:21, 06:25, 06:34, 06:36, 06:38-06:39, 06:52	
8⁶	175 bp	430 bp	*06:04:01-06:07:02, 06:09, 06:18, 06:25, 06:27, 06:32, 06:34, 06:36, 06:38-06:39, 06:52	

101.212.24/04 – including *Taq* pol., IFU-01
 101.212.24u/04u – without *Taq* pol., IFU-02

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Lot No.: **26R**

Lot-specific information

9⁶	130 bp	430 bp	*06:04:01-06:05:01, 06:06, 06:08:01-06:09, 06:12, 06:17-06:18, 06:21, 06:27, 06:34, 06:36, 06:38-06:39, 06:42, 06:52	
10⁹	260 bp	515 bp	*06:05:01, 06:05:02 [?] -06:06 [?] , 06:20 ^w , 06:31, 06:45	
11	210 bp	430 bp	*06:05:01, 06:05:02 [?] -06:06 [?] , 06:09, 06:12, 06:15, 06:22, 06:42, 06:46	
12	180 bp	430 bp	*06:06	
13¹⁰	185 bp, 225 bp	430 bp	*06:05:02, 06:10, 06:15, 06:22, 06:37, 06:48	*03:30
14	130 bp	430 bp	*06:13, 06:22	
15^{5,8,11}	100 bp, 185 bp	430 bp	*06:14:01-06:14:02, 06:29	
16¹²	195 bp, 300 bp	430 bp	*06:16, 06:52	
17⁵	110 bp	430 bp	*06:23	
18⁷	175 bp	430 bp	*06:17, 06:24, 06:30, 06:42	
19	135 bp	430 bp	*06:10, 06:25, 06:36	
20^{5,13}	110 bp, 215 bp	515 bp	*06:26N, 06:37	
21	160 bp	430 bp	*06:02:01-06:02:02, 06:10, 06:13-06:16, 06:20, 06:23-06:24, 06:29, 06:33, 06:37, 06:46-06:50	
22¹⁴	130 bp, 195 bp	515 bp	*06:07:01-06:07:02, 06:15, 06:38, 06:46	
23	160 bp	515 bp	*06:03:01-06:03:02, 06:08:01-06:08:02, 06:14:01-06:14:02, 06:21, 06:28, 06:31, 06:40-06:41, 06:44	
24⁶	155 bp	430 bp	*06:19	*03:30, 04:01:01-04:03:02, 04:06-04:08
25	210 bp	430 bp	*06:03:01-06:03:02, 06:08:01-06:08:02, 06:14:01-06:14:02, 06:27-06:28, 06:30-06:32, 06:40-06:41, 06:44	
26¹⁶	165 bp, 190 bp	430 bp	*06:28, 06:35	
27¹⁷	205 bp,	430 bp	*06:33, 06:40	

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 101.212.24u/04u – without *Taq* pol., IFU-02

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Lot No.: **26R**

Lot-specific information

	265 bp		
28^{8,18}	180 bp, 300 bp	515 bp	*06:34, 06:50
29⁵	90 bp	430 bp	*06:04:01-06:05:01, 06:05:02 [?] -06:06 [?] , 06:07:01- 06:07:02, 06:09, 06:15, 06:22, 06:25, 06:34, 06:36, 06:38-06:39, 06:52
30^{5,8}	115 bp	430 bp	*06:02:01-06:03:02, 06:05:01 [?] -06:07:01 [?] , 06:08:01 [?] -06:08:02 [?] , 06:10 [?] - 06:11:02 [?] , 06:13 [?] -06:33 [?] , 06:35 [?] , 06:37 [?] , 06:39, 06:40 [?] , 06:44, 06:45 [?] -06:46 [?] , 06:47, 06:48 [?] -06:50 [?]
31^{5,8,19}	100 bp, 220 bp	430 bp	*06:43-06:44, 06:47
32^{5,6}	115 bp	430 bp	*06:04:01-06:04:03, 06:05:01 [?] -06:07:01 [?] , 06:07:02, 06:08:01 [?] - 06:08:02 [?] , 06:09, 06:10 [?] - 06:11:02 [?] , 06:12, 06:13 [?] - 06:33 [?] , 06:34, 06:35 [?] , 06:36, 06:37 [?] , 06:38, 06:40 [?] , 06:41- 06:42, 06:45 [?] -06:46 [?] , 06:48 [?] - 06:50 [?] , 06:52

¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of DQB1*06 SSP typings.

When the primers in a primer mix can give rise to HLA-specific PCR products of more than one length this is indicated if the size difference is more than 20 base pairs. Size differences of 20 base pairs or less are not given. For high resolution SSP kits the respective lengths of the HLA-specific PCR product(s) are given for the alleles amplified by these primer mixes.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated

²The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 430 base pairs, for most wells, or a band of 515 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DQB1*06 subtyping.

In addition, wells number 6, 7, 10, 20, 22, 23 and 28 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

101.212.24/04 – including *Taq* pol., IFU-01
101.212.24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: 26R**Lot-specific information**

In the presence of a specific amplification the intensity of the control band often decreases.

³For several DQB1 alleles 1st and/or 3th exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in these regions are conserved within allelic groups.

⁴Due to the sharing of sequence motif between DQB1 alleles, the DQB1*03:23 allele will be amplified by primer mix 5, the DQB1*03:30 allele will be amplified by primer mixes 13 and 24 and the 04:01:01-04:03:02 and 04:06-04:08 alleles will be amplified by primer mix 24.

⁵HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

⁶Primer mix 8, 9, 24 and 32 may give rise to a lower yield of HLA-specific PCR product than the other DQB1*06 primer mixes.

⁷Primer mix 18 may have a tendency to giving rise to primer oligomer formation.

⁸Primer mix 15, 28, 30 and 31 may have tendencies of unspecific amplifications.

⁹The nucleotide sequence of codon 14 of the DQB1*06:05:02 allele is not yet known. If codon 14 is CTg, then the DQB1*06:05:02 allele will retain its name and will be amplified by the primer pair in well No. 10. If the sequence of codon 14 is ATg, then DQB1*06:05:02 will be renamed to DQB1*06:09:02 (Steven Marsh personal communication), and will not be amplified by the primer pair in well No. 10.

¹⁰Primer mix 13: Specific PCR fragment of 185 bp in the DQB1*06:10 allele. Specific PCR fragment of 225 bp in the DQB1*06:05:02, 06:15, 06:22, 06:37 and 06:48 and the DQB1*03:30 alleles.

¹¹Primer mix 15: Specific PCR fragment of 100 bp in the DQB1*06:14:01 and *06:14:02 alleles. Specific PCR fragment of 185 bp in the DQB1*06:29 allele.

¹²Primer mix 16: Specific PCR fragment of 195 bp in the DQB1*06:16 allele. Specific PCR fragment of 300 bp in the DQB1*06:52 allele.

¹³Primer mix 20: Specific PCR fragment of 110 bp in the DQB1*06:37 allele. Specific PCR fragment of 215 bp in the DQB1*06:26N allele.

¹⁴Primer mix 22: Specific PCR fragment of 130 bp in the DQB1*06:07:01-06:07:02, 06:15 and 06:46 alleles. Specific PCR fragment of 195 bp in the DQB1*06:38 allele.

¹⁶Primer mix 26: Specific PCR fragment of 165 bp in the DQB1*06:35 allele. Specific PCR fragment of 190 bp in the DQB1*06:28 allele.

¹⁷Primer mix 27: Specific PCR fragment of 205 bp in the DQB1*06:40 allele. Specific PCR fragment of 265 bp in the DQB1*06:33 allele.

¹⁸Primer mix 28: Specific PCR fragment of 180 bp in the DQB1*06:50 allele. Specific PCR fragment of 300 bp in the DQB1*06:34 allele.

¹⁹Primer mix 31: Specific PCR fragment of 100 bp in the DQB1*06:44 and 06:47 alleles. Specific PCR fragment of 220 bp in the DQB1*06:43 allele.

‘w’, may be weakly amplified.

“?”, nucleotide sequence information is not available for the primer matching sequence.

101.212.24/04 – including *Taq* pol., IFU-01
 101.212.24u/04u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: 26R

Lot-specific information

INTERPRETATION TABLE																
DQB1*06 SSP subtyping																
Amplification patterns of the DQB1*06:01 to 06:52 alleles																
	Well ⁴															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Length of spec. PCR product(s)	220	210	185	130	160	170	210	175	130	260	210	180	185	130	100	195
Length of int. pos. control ¹	515	430	430	430	430	515	515	430	430	515	430	430	430	430	430	430
5'-primer(s) ²	26(173)	29(184)	9(122)	27(177)	9(122)	27(177)	29(184)	27(177)	27(177)	13(136)	29(184)	27(177)	9(122)	27(177)	9(122)	9(122)
	5'-TTA ^{3'}	5'-gAT ^{3'}	5'-gTT ^{3'}	5'-gTA ^{3'}	5'-gTA ^{3'}	5'-gTA ^{3'}	5'-gAC ^{3'}	5'-gTA ^{3'}	5'-gTA ^{3'}	5'-gCC ^{3'}	5'-gAT ^{3'}	5'-gTA ^{3'}	5'-gTT ^{3'}	5'-gTg ^{3'}	5'-gTT ^{3'}	5'-gTT ^{3'}
		29(184)														98(389)
		5'-gAT ^{3'}														5'-CAT ^{3'}
3'-primer(s) ³	86(353)	86(353)	57(266)	57(266)	48(240)	69(304)	86(353)	69(304)	57(266)	86(353)	86(353)	74(317)	56(265)	57(266)	27(177)	59(274)
	5'-ACg ^{3'}	5'-ACg ^{3'}	5'-CAT ^{3'}	5'-CAT ^{3'}	5'-gCg ^{3'}	5'-CCC ^{3'}	5'-ACC ^{3'}	5'-CCT ^{3'}	5'-CAA ^{3'}	5'-ACC ^{3'}	5'-ACC ^{3'}	5'-CCg ^{3'}	5'-gCT ^{3'}	5'-CAA ^{3'}	5'-gTT ^{3'}	5'-gTT ^{3'}
								74(317)		87(356)			69(304)		29(184)	185(650)
								5'-CCg ^{3'}		5'-ggA ^{3'}			5'-CCT ^{3'}		5'-gTg ^{3'}	5'-Cgg ^{3'}
															57(266)	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DQB1 allele																
*06:01:01-06:01:06	1	2														
*06:02:01-06:02:02		2	3													
*06:03:01-06:03:02				4	5	6										
*06:04:01, 06:04:03							7	8	9							
*06:04:02					5		7	8	9							
*06:05:01								8	9	10	11					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16



101.212.24/04 – including *Taq* pol., IFU-01
 101.212.24u/04u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **26R**

Lot-specific information

INTERPRETATION TABLE															
DQB1*06 SSP subtyping															
Amplification patterns of the DQB1*06:01 to 06:52 alleles															
Well⁴															
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
110	175	135	110	160	130	160	155	210	165	205	180	90	115	100	115
			215		195			260	190	265	300			220	
430	430	430	515	430	515	515	430	430	430	430	515	430	430	430	430
5' -ggg 3'	5' -TCT 3'	5' -TCT 3'	5' -CCT 3'	5' -gTT 3'	5' -TgA 3'	5' -gAC 3'	5' -gTT 3'	5' -ggT 3'	5' -CgT 3'	5' -TTA 3'	5' -gAT 3'	5' -AgA 3'	5' -CCg 3'	5' -ggC 3'	5' -CCA 3'
5' -gCg 3'	5' -ggC 3'	5' -gCT 3'	5' -ACg 3'	5' -gCg 3'	5' -ACC 3'	5' -CCC 3'	5' -CgA 3'	5' -ACg 3'	5' -ggA 3'	5' -ACg 3'	5' -gTg 3'	5' -ACC 3'	5' -AAA 3'	5' -CCA 3'	5' -AAA 3'
		186(653)			185(650)						188(661)			174(618)	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32



101.212.24/04 – including *Taq* pol., IFU-01
 101.212.24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **26R**

Lot-specific information

Length of spec.	220	210	185	130	160	170	210	175	130	260	210	180	185	130	100	195
PCR product(s)													225		185	300
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*06:05:02		?						8		?	?		13			
*06:06		?						8	9	?	?	12				
*06:07:01				4	5		7	8								
*06:07:02				4			7	8								
*06:08:01					5	6			9							
*06:08:02						6			9							
*06:09								8	9		11					
*06:10		2											13			
*06:11:01		2			5											
*06:11:02		2		4	5	6										
*06:12						6			9		11					
*06:13		2												14		
*06:14:01			3	4		6									15	
*06:14:02			3												15	
*06:15			3								11		13			
*06:16		2	3													16
*06:17							7		9							
*06:18		2						8	9							
*06:19		2	3													
*06:20		2	3							w						
*06:21						6	7		9							
*06:22											11		13	14		
*06:23			3													
*06:24		2	3													
*06:25							7	8								
*06:26N				4	5	6										
*06:27								8	9							
*06:28				4	5	6										
*06:29		2													15	
*06:30				4	5											
*06:31				4	5	6				10						
*06:32				4	5			8								
*06:33		2	3													
*06:34							7	8	9							
*06:35	1	2														
*06:36							7	8	9							
*06:37		2	3										13			
*06:38							7	8	9							
*06:39							7	8	9							
*06:40				4	5	6										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

101.212.24/04 – including *Taq* pol., IFU-01
 101.212.24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **26R**

Lot-specific information

110	175	135	110	160	130	160	155	210	165	205	180	90	115	100	115	Length of spec. PCR product(s)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
			215		195			260	190	265	300			220		*06:05:02
												?	?		?	*06:06
					22							29	?		?	*06:07:01
					22							29			32	*06:07:02
						23		25					?		?	*06:08:01
						23		25					?		?	*06:08:02
												29			32	*06:09
		19		21									?		?	*06:10
													?		?	*06:11:01
													?		?	*06:11:02
															32	*06:12
				21									?		?	*06:13
				21		23		25					?		?	*06:14:01
				21		23		25					?		?	*06:14:02
				21	22							29	?		?	*06:15
				21									?		?	*06:16
	18												?		?	*06:17
													?		?	*06:18
							24						?		?	*06:19
				21									?		?	*06:20
						23							?		?	*06:21
												29	?		?	*06:22
17				21									?		?	*06:23
	18			21									?		?	*06:24
		19										29	?		?	*06:25
			20										?		?	*06:26N
								25					?		?	*06:27
						23		25	26				?		?	*06:28
				21									?		?	*06:29
	18							25					?		?	*06:30
						23		25					?		?	*06:31
								25					?		?	*06:32
				21						27			?		?	*06:33
										28	29				32	*06:34
									26				?		?	*06:35
		19										29			32	*06:36
			20	21									?		?	*06:37
					22							29			32	*06:38
												29	30			*06:39
						23		25		27			?		?	*06:40
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.



101.212.24/04 – including *Taq* pol., IFU-01
 101.212.24u/04u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **26R**

Lot-specific information

Length of spec.	220	210	185	130	160	170	210	175	130	260	210	180	185	130	100	195
PCR product(s)													225		185	300
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
*06:41				4	5	6										
*06:42									9		11					
*06:43	1	2														
*06:44				4	5	6										
*06:45	1	2								10						
*06:46			3								11					
*06:47		2	3													
*06:48		2	3										13			
*06:49		2	3													
*06:50		2	3													
*06:52							7	8	9							16
*03:23					5											
*03:30													13			
*04:01:01-04:03:02, 04:06-04:08																
DQB1 allele																
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 430 base pairs, for most wells, or a band of 515 base pairs, for some wells. Well number 1 contains the primer pair giving rise to the longer, 515 bp, internal positive control band in order to help in the correct orientation of the DQB1*06 subtyping. In addition, wells number 6, 7, 10, 20, 22, 23 and 28 contain the primer pair giving rise to the longer, 515 bp, internal positive control band in order to allow kit identification.

²The codon, and in parenthesis the nucleotide, in the 2nd or 3rd exons, matching the specificity-determining 3'-end of the primer is given. Codon and nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The codon, and in parenthesis the nucleotide, in the 2nd or 3rd exons, matching the specificity-determining 3'-end of the primer is given. Codon and nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

101.212.24/04 – including *Taq* pol., IFU-01
 101.212.24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **26R**

Lot-specific information

110	175	135	110	160	130	160	155	210	165	205	180	90	115	100	115	Length of spec. PCR product(s)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.
			215		195			260	190	265	300			220		
						23		25							32	*06:41
	18														32	*06:42
														31		*06:43
						23		25					30	31		*06:44
													?		?	*06:45
				21	22								?		?	*06:46
				21									30	31		*06:47
				21									?		?	*06:48
				21									?		?	*06:49
				21							28		?		?	*06:50
												29			32	*06:52
																*03:23
							24									*03:30
							24									*04:01-01-04:03:02, 04:06-04:08
																DQB1 allele
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Well No.

⁴Primer mix 13: Specific PCR fragment of 185 bp in the DQB1*06:10 allele. Specific PCR fragment of 225 bp in the DQB1*06:05:02, 06:15, 06:22, 06:37 and 06:48 and the DQB1*03:30 alleles.

Primer mix 15: Specific PCR fragment of 100 bp in the DQB1*06:14:01 and *06:14:02 alleles. Specific PCR fragment of 185 bp in the DQB1*06:29 allele.

Primer mix 16: Specific PCR fragment of 195 bp in the DQB1*06:16 allele. Specific PCR fragment of 300 bp in the DQB1*06:52 allele.

Primer mix 20: Specific PCR fragment of 110 bp in the DQB1*06:37 allele. Specific PCR fragment of 215 bp in the DQB1*06:26N allele.

Primer mix 22: Specific PCR fragment of 130 bp in the DQB1*06:07:01-06:07:02, 06:15 and 06:46 alleles. Specific PCR fragment of 195 bp in the DQB1*06:38 allele.

Primer mix 26: Specific PCR fragment of 165 bp in the DQB1*06:35 allele. Specific PCR fragment of 190 bp in the DQB1*06:28 allele.

Primer mix 27: Specific PCR fragment of 205 bp in the DQB1*06:40 allele. Specific PCR fragment of 265 bp in the DQB1*06:33 allele.

Primer mix 28: Specific PCR fragment of 180 bp in the DQB1*06:50 allele. Specific PCR fragment of 300 bp in the DQB1*06:34 allele.

Primer mix 31: Specific PCR fragment of 100 bp in the DQB1*06:44 and 06:47 alleles. Specific PCR fragment of 220 bp in the DQB1*06:43 allele.

‘w’, may be weakly amplified.

“?”, nucleotide sequence information is not available for the primer matching sequence.

101.212.24/04 – including *Taq* pol., IFU-01
 101.212.24u/04u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
 “Instructions for Use” (IFU)

Lot No.: **26R**

Lot-specific information

CELL LINE VALIDATION SHEET																			
DQB1*06 SSP subtyping kit																			
				Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				201075701	201075702	201075703	201075704	201075705	201075706	201075707	201075708	201075709	201075710	201075711	201075712	201206713	201075714	201075715	201206716
	IHWC cell line	DQB1	Prod. No.																
1	9001 SA	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*06:01	*02:02	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*06:01		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*05:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:02	*06:01	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*03:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*02:01	*06:03	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*06:02	*02:02	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*06:04		-	-	-	-	-	-	+	+	+	-	-	-	-	-	-	-
21	9064 AMALA	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*05:03	*06:04	-	-	-	-	-	-	+	+	+	-	-	-	-	-	-	-
23	9124 IHL	*05:03	*06:01	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*04:01	*05:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:02	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*04:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*03:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*06:03		-	-	-	+	+	+	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:02	*03:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*06:09		-	-	-	-	-	-	-	+	+	-	+	-	-	-	-	-
42	9066 TAB089	*06:01		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*05:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*06:02		-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.212.24/04 – including *Taq* pol., IFU-01
 101.212.24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **26R**

Lot-specific information

CELL LINE VALIDATION SHEET																			
DQB1*06 SSP subtyping kit																			
			Prod. No.	Well															
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
				201206717	201075718	201075719	201075720	201075721	201075722	201075723	201294224	201206725	201294226	201075727	201206728	201075729	201206730	201294231	201206732
	IHWC cell line	DQB1																	
1	9001 SA	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2	9280 LK707	*06:01	*02:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3	9011 E4181324	*06:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	9275 GU373	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5	9009 KAS011	*05:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
6	9353 SM	*03:02	*06:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
7	9020 QBL	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
8	9025 DEU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
9	9026 YAR	*03:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
10	9107 LKT3	*04:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-		
11	9051 PITOUT	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
12	9052 DBB	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
13	9004 JESTHOM	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
14	9071 OLGA	*04:02		-	-	-	-	-	-	-	+	-	-	-	-	-	-		
15	9075 DKB	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
16	9037 SWEIG007	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
17	9282 CTM3953540	*02:01	*06:03	-	-	-	-	-	-	+	-	+	-	-	-	+	-		
18	9257 32367	*06:02	*02:02	-	-	-	-	+	-	-	-	-	-	-	+	-	-		
19	9038 BM16	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
20	9059 SLE005	*06:04		-	-	-	-	-	-	-	-	-	-	+	-	-	+		
21	9064 AMALA	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
22	9056 KOSE	*05:03	*06:04	-	-	-	-	-	-	-	-	-	-	-	+	-	+		
23	9124 IHL	*05:03	*06:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
24	9035 JBUSH	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
25	9049 IBW9	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
26	9285 WT49	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
27	9191 CH1007	*04:01	*05:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-		
28	9320 BEL5GB	*02:02	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
29	9050 MOU	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
30	9021 RSH	*04:02		-	-	-	-	-	-	-	+	-	-	-	-	-	-		
31	9019 DUCAF	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
32	9297 HAG	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
33	9098 MT14B	*03:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
34	9104 DHIF	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
35	9302 SSTO	*03:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
36	9024 KT17	*03:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
37	9065 HHKB	*06:03		-	-	-	-	-	-	+	-	+	-	-	-	+	-		
38	9099 LZL	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
39	9315 CML	*02:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
40	9134 WHONP199	*02:02	*03:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
41	9055 H0301	*06:09		-	-	-	-	-	-	-	-	-	-	-	+	-	+		
42	9066 TAB089	*06:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
43	9076 T7526	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
44	9057 TEM	*05:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
45	9239 SHJO	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
46	9013 SCHU	*06:02		-	-	-	-	+	-	-	-	-	-	-	-	+	-		
47	9045 TUBO	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
48	9303 TER-ND	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-		



101.212.24/04 – including *Taq* pol., IFU-01
 101.212.24u/04u – without *Taq* pol., IFU-02

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Lot No.: **26R**

Lot-specific information

CERTIFICATE OF ANALYSIS

OLERUP SSP® DQB1*06 SSP

Product number: 101.212-24/04 – including *Taq* pol.
 101.212-24u/04u – without *Taq* pol.

Lot number: 26R

Expiry date: 2015-April-01

Number of tests: 24 test – Product No. 101.212-24/24u
 4 tests – Product No. 101.212-04/04u

Number of wells per test: 32

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2010-757-01	13	2012-067-13	25	2012-067-25
2	2010-757-02	14	2010-757-14	26	2012-942-26
3	2010-757-03	15	2010-757-15	27	2010-757-27
4	2010-757-04	16	2012-067-16	28	2012-067-28
5	2010-757-05	17	2012-067-17	29	2010-757-29
6	2010-757-06	18	2010-757-18	30	2012-067-30
7	2010-757-07	19	2010-757-19	31	2012-942-31
8	2010-757-08	20	2010-757-20	32	2012-067-32
9	2010-757-09	21	2010-757-21		
10	2010-757-10	22	2010-757-22		
11	2010-757-11	23	2010-757-23		
12	2010-757-12	24	2012-942-24		

The specificity of each primer solution of the kit has been tested against 48 well characterized cell line IHWC DNAs.

No DNAs carrying the alleles to be amplified by primer solutions 10, 12 to 20, 22, 26 to 28 and 31 were available. The specificities of the primers in primer solutions 10, 12 to 17, 19, 22 and 26 were tested by separately adding additional 5'-primers, respectively additional 3'-primers. In primer solutions 18, 28 and 31 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 20 and 27 it was only possible to test the 3'-primer, the 5'-primer was not possible to test.

In primer solution 16 and 19, one 3'-primer was not possible to test, and in primer solutions 16, 22 and 25 one 5'-primer was not possible to test.

Results: No false positive or false negative amplifications were obtained.

Date of approval: 2012-October-22

Approved by:

Production Quality Control

101.212.24/04 – including *Taq* pol., IFU-01
101.212.24u/04u – without *Taq* pol., IFU-02

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Lot No.: **26R**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® DQB1*06
Product number: 101.212-24/24u, -04/04u
Lot number: 26R

Intended use: DQB1*06 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
Franzengatan 5
SE-112 51 Stockholm, Sweden
Phone: +46-8-717 88 27
Fax: +46-8-717 88 18

We, *Olerup* SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex III, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at *Olerup* SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

Stockholm, Sweden
2014-September-02

Daniel Malica
Head of QA and Regulatory Affairs

101.212.24/04 – including *Taq* pol., IFU-01
101.212.24u/04u – without *Taq* pol., IFU-02

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Lot No.: **26R**

Lot-specific information

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