

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.: **53S**

Lot-specific information  
**Olerup SSP<sup>®</sup> DQB1\*06**

**Product number:** 101.212-24/04 – including *Taq* pol.  
 101.212-24u/04u – without *Taq* pol.  
**Lot number:** 53S  
**Expiry date:** 2016-January-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:** 44  
**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. 53S.**

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP<sup>®</sup> DQB1\*06 LOT (70R)**

The DQB1\*06 specificity and interpretation tables have been updated for the DQB1 alleles described since the previous *Olerup SSP<sup>®</sup> DQB1\*06* lot (Lot No. 70R).

Twelve wells have been added to the DQB1\*06 kit, well **33 to 44**.  
 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
8	-	Added	3'-primer added for the DQB1*06:65 allele
12	-	Added	3'-primer added for the DQB1*06:64 allele.
20	Added	Added	3'-primer added for the DQB1*06:81 and DQB1*06:83 alleles.
27	Added	-	5'-primer added for the DQB1*06:57 and DQB1*06:81 alleles.
33	New	New	New primer pair for the DQB1*06:56 allele.
34	New	New	New primer pair for the DQB1*06:53 allele.
35	New	New	New primer pair for the DQB1*06:54N allele.

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36	New	New	New primer pair for the DQB1*06:71, DQB1*06:77N and DQB1*06:78 alleles.
37	New	New	New primer pair for the DQB1*06:76, DQB1*06:77N and DQB1*06:80 alleles.
38	New	New	New primer pair for the DQB1*06:72, DQB1*06:73N and DQB1*06:78 alleles.
39	New	New	New primer pair for the DQB1*06:73, DQB1*06:74 and DQB1*06:80 alleles.
40	New	New	New primer pair for the DQB1*06:75N and DQB1*06:70 alleles.
41	New	New	New primer pair for the DQB1*06:59 allele.
42	New	New	New primer pair for the DQB1*06:60 and DQB1*06:61 alleles.
43	New	New	New primer pair for the DQB1*06:68 allele.
44	New	New	New primer pair for the DQB1*06:67 allele.

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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## PRODUCT DESCRIPTION

### DQB1\*06 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the DQB1\*06:01 to DQB1\*06:84 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 44 PCR reactions in a 48 well cut PCR plate. Wells 45 to 48 are empty

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
33	34	35	36	37	38	39	40
41	42	43	44	empty	empty	empty	empty

The 48 well cut PCR plate is marked with 'DQB1\*06' in silver/gray ink.

Well No. 1 is marked with the Lot No. '53S'.

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 48 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\*03:10, 03:12, 03:14:02 and 03:70 alleles will be amplified by primer mix 34, the DQB1\*03:23 allele will be amplified by primer mix 5, the DQB1\*03:30 and 03:72 alleles will be amplified by primer mixes 13 and 24, the 04:01:01-04:03:02, 04:06-04:08 and 04:12 alleles will be amplified by primer mix 24 and the DQB1\*05:04 allele will be amplified by primer mixes 10, 26 and 33. 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\*06:84**, recognized by the HLA Nomenclature Committee in April 2013<sup>1</sup> will give rise to unique amplification patterns by the primers in the DQB1\*06 subtyping kit.

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The DQB1\*06:70 and DQB1\*06:75 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 40.

The DQB1\*06 subtyping kit cannot distinguish the silent mutations in the DQB1\*06:01:01, 06:01:03-06:01:06 and 06:01:08 alleles, the DQB1\*06:01:02 and 06:01:07 alleles, the DQB1\*06:02:01-06:02:04 and 06:02:06 alleles, the DQB1\*06:03:01-06:03:03 and 06:03:05-06:03:06 alleles, the DQB1\*06:04:01 and 06:04:03-06:04:05 alleles or the DQB1\*06:15:01-06:15:02 alleles.

<sup>1</sup>HLA-B alleles listed on the IMGT/HLA web page 2013-April-17, release 3.12.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

**RESOLUTION IN HOMO- AND HETEROZYGOTES**

A total of 117 alleles generate 90 amplification patterns that can be combined in 4095 homozygous and heterozygous combinations. 639 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.

--+++++ --+-----	----- +-----+ -----	----	*06:05:02, *06:32 = *06:05:02, *06:62
--+++++ ++++-----	-----+ +-----+ -----	----	*06:06, *06:08:02 = *06:06, *06:63
--+++++ ++++-----	-----+ +-----+ -----	----	*06:06, *06:32 = *06:06, *06:62
--+++++ ++++-----	-----+ +-----+ -----	----	*06:06, *06:64 = *06:06, *06:65
++++-----	-----+ +-----+ -----	----	*06:01:01, *06:01:01 = *06:01:01, *06:01:02
---+-----	-----+ +-----+ -----	----	*06:60, *06:60 = *06:60, *06:62
++-----	-----+ +-----+ -----	----	*06:35, *06:53 = *06:53, *06:53
---+-----	-----+ +-----+ -----	----	*06:72, *06:73 = *06:72, *06:74 = *06:73, *06:73 = *06:73, *06:74
---+-----	-----+ +-----+ -----	----	*06:74, *06:76 = *06:74, *06:80 = *06:76, *06:80 = *06:80, *06:80
---+-----	-----+ +-----+ -----	----	*06:71, *06:72 = *06:71, *06:78 = *06:72, *06:78 = *06:78, *06:78
---+-----	-----+ +-----+ -----	----	*06:71, *06:76 = *06:71, *06:77N = *06:76, *06:77N = *06:77N, *06:77N
++-----	-----+ +-----+ -----	----	*06:35, *06:54N = *06:53, *06:54N
++-----	-----+ +-----+ -----	----	*06:35, *06:56 = *06:53, *06:56 = *06:56, *06:56
---+-----	-----+ +-----+ -----	----	*06:72, *06:80 = *06:73, *06:76 = *06:73, *06:80
---+-----	-----+ +-----+ -----	----	*06:71, *06:73 = *06:73, *06:78 = *06:74, *06:78
---+-----	-----+ +-----+ -----	----	*06:71, *06:80 = *06:74, *06:77N = *06:77N, *06:80
---+-----	-----+ +-----+ -----	----	*06:72, *06:77N = *06:76, *06:78 = *06:77N, *06:78
---+-----	-----+ +-----+ -----	----	*06:05:02, *06:37 = *06:05:02, *06:83
---+-----	-----+ +-----+ -----	----	*06:73, *06:77N = *06:78, *06:80
---+-----	-----+ +-----+ -----	----	*06:02:05, *06:02:05 = *06:02:05, *06:19
++-----	-----+ +-----+ -----	----	*06:01:01, *06:54N = *06:01:02, *06:54N
++-----	-----+ +-----+ -----	----	*06:01:01, *06:43 = *06:01:02, *06:43 = *06:43, *06:43
++-----	-----+ +-----+ -----	----	*06:01:01, *06:57 = *06:01:02, *06:57
++-----	-----+ +-----+ -----	----	*06:01:01, *06:35 = *06:01:01, *06:53 = *06:01:02, *06:53
++-----	-----+ +-----+ -----	----	*06:01:01, *06:55 = *06:01:02, *06:55
---+-----	-----+ +-----+ -----	----	*06:08:02, *06:08:02 = *06:08:02, *06:63
---+-----	-----+ +-----+ -----	----	*06:30, *06:30 = *06:30, *06:62
---+-----	-----+ +-----+ -----	----	*06:32, *06:32 = *06:32, *06:62
---+-----	-----+ +-----+ -----	----	*06:10, *06:10 = *06:10, *06:51
---+-----	-----+ +-----+ -----	----	*06:11:01, *06:11:02 = *06:11:02, *06:11:02
---+-----	-----+ +-----+ -----	----	*06:48, *06:48 = *06:48, *06:51
++-----	-----+ +-----+ -----	----	*06:35, *06:57 = *06:53, *06:57
++-----	-----+ +-----+ -----	----	*06:35, *06:55 = *06:53, *06:55
---+-----	-----+ +-----+ -----	----	*06:04:01, *06:04:01 = *06:04:01, *06:04:06 = *06:04:01, *06:58 = *06:04:06, *06:58



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-----++ +-----	-----	-----	-----	-----	-----	*06:39, *06:39 = *06:39, *06:58
-----++ +-----	-----	-----	-----	-----	-----	*06:03:04, *06:03:04 = *06:03:04, *06:63
-----++ +-----	-----	-----	-----	-----	-----	*06:02:01, *06:47 = *06:47, *06:47
-----++ +-----	-----	-----	-----	-----	-----	*06:02:01, *06:02:05 = *06:02:01, *06:19
-----++ +-----	-----	-----	-----	-----	-----	*06:02:01, *06:48 = *06:02:01, *06:51
-----++ +-----	-----	-----	-----	-----	-----	*06:01:01, *06:56 = *06:01:02, *06:56
-----++ +-----	-----	-----	-----	-----	-----	*06:01:02, *06:02:01 = *06:02:01, *06:82
-----++ +-----	-----	-----	-----	-----	-----	*06:01:02, *06:48 = *06:51, *06:82
-----++ +-----	-----	-----	-----	-----	-----	*06:08:02, *06:27 = *06:27, *06:63
-----++ +-----	-----	-----	-----	-----	-----	*06:08:02, *06:21 = *06:21, *06:63
-----++ +-----	-----	-----	-----	-----	-----	*06:08:01, *06:08:01 = *06:08:01, *06:08:02 = *06:08:01, *06:63
-----++ +-----	-----	-----	-----	-----	-----	*06:27, *06:32 = *06:27, *06:62
-----++ +-----	-----	-----	-----	-----	-----	*06:11:01, *06:26N = *06:11:02, *06:26N
-----++ +-----	-----	-----	-----	-----	-----	*06:33, *06:81 = *06:33, *06:83 = *06:81, *06:81 = *06:81, *06:83
-----++ +-----	-----	-----	-----	-----	-----	*06:48, *06:50 = *06:50, *06:51
-----++ +-----	-----	-----	-----	-----	-----	*06:33, *06:48 = *06:33, *06:51
-----++ +-----	-----	-----	-----	-----	-----	*06:48, *06:49 = *06:49, *06:51
-----++ +-----	-----	-----	-----	-----	-----	*06:19, *06:48 = *06:19, *06:51
-----++ +-----	-----	-----	-----	-----	-----	*06:37, *06:37 = *06:37, *06:48 = *06:37, *06:51 = *06:37, *06:83 = *06:48, *06:83
-----++ +-----	-----	-----	-----	-----	-----	*06:24, *06:48 = *06:24, *06:51
-----++ +-----	-----	-----	-----	-----	-----	*06:23, *06:48 = *06:23, *06:51
-----++ +-----	-----	-----	-----	-----	-----	*06:16, *06:48 = *06:16, *06:51
-----++ +-----	-----	-----	-----	-----	-----	*06:20, *06:48 = *06:20, *06:51
-----++ +-----	-----	-----	-----	-----	-----	*06:20, *06:45 = *06:20, *06:82 = *06:45, *06:82
-----++ +-----	-----	-----	-----	-----	-----	*06:62, *06:67 = *06:63, *06:67 = *06:67, *06:67
-----++ +-----	-----	-----	-----	-----	-----	*06:60, *06:61 = *06:60, *06:63 = *06:61, *06:61 = *06:61, *06:62 = *06:61, *06:63
-----++ +-----	-----	-----	-----	-----	-----	*06:59, *06:59 = *06:59, *06:62 = *06:59, *06:63
-----++ +-----	-----	-----	-----	-----	-----	*06:33, *06:57 = *06:57, *06:82
-----++ +-----	-----	-----	-----	-----	-----	*06:35, *06:79 = *06:79, *06:82
-----++ +-----	-----	-----	-----	-----	-----	*06:60, *06:67 = *06:61, *06:67
-----++ +-----	-----	-----	-----	-----	-----	*06:59, *06:60 = *06:59, *06:61
-----++ +-----	-----	-----	-----	-----	-----	*06:53, *06:79 = *06:56, *06:79 = *06:56, *06:82
-----++ +-----	-----	-----	-----	-----	-----	*06:04:01, *06:39 = *06:04:06, *06:39
-----++ +-----	-----	-----	-----	-----	-----	*06:04:01, *06:34 = *06:04:06, *06:34 = *06:34, *06:34 = *06:34, *06:58
-----++ +-----	-----	-----	-----	-----	-----	*06:04:01, *06:38 = *06:04:06, *06:38 = *06:38, *06:38 = *06:38, *06:58
-----++ +-----	-----	-----	-----	-----	-----	*06:04:01, *06:25 = *06:04:01, *06:36 = *06:04:06, *06:25 = *06:04:06, *06:36 = *06:36, *06:36 = *06:36, *06:58
-----++ +-----	-----	-----	-----	-----	-----	*06:04:01, *06:52 = *06:04:06, *06:52 = *06:52, *06:52 = *06:52, *06:58
-----++ +-----	-----	-----	-----	-----	-----	*06:04:06, *06:08:02 = *06:04:06, *06:63
-----++ +-----	-----	-----	-----	-----	-----	*06:04:01, *06:04:02 = *06:04:02, *06:04:02 = *06:04:02, *06:04:06 = *06:04:02, *06:58
-----++ +-----	-----	-----	-----	-----	-----	*06:03:07, *06:08:01 = *06:03:07, *06:08:02
-----++ +-----	-----	-----	-----	-----	-----	*06:04:06, *06:32 = *06:04:06, *06:62
-----++ +-----	-----	-----	-----	-----	-----	*06:41, *06:41 = *06:41, *06:62 = *06:41, *06:63
-----++ +-----	-----	-----	-----	-----	-----	*06:03:01, *06:03:01 = *06:03:01, *06:03:04 = *06:03:01, *06:03:07 = *06:03:01, *06:62 = *06:03:01, *06:63 = *06:03:04, *06:03:07 = *06:03:04, *06:62
-----++ +-----	-----	-----	-----	-----	-----	*06:47, *06:48 = *06:47, *06:51
-----++ +-----	-----	-----	-----	-----	-----	*06:02:05, *06:48 = *06:02:05, *06:51
-----++ +-----	-----	-----	-----	-----	-----	*06:01:02, *06:47 = *06:47, *06:82
-----++ +-----	-----	-----	-----	-----	-----	*06:58, *06:69 = *06:69, *06:69
-----++ +-----	-----	-----	-----	-----	-----	*06:08:02, *06:17 = *06:17, *06:63
-----++ +-----	-----	-----	-----	-----	-----	*06:17, *06:30 = *06:17, *06:62
-----++ +-----	-----	-----	-----	-----	-----	*06:40, *06:40 = *06:40, *06:62 = *06:40, *06:63
-----++ +-----	-----	-----	-----	-----	-----	*06:62, *06:64 = *06:63, *06:64 = *06:64, *06:64



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----	++++	----	++++	----	----	*06:31, *06:31 = *06:31, *06:62 = *06:31, *06:63
----	++++	----	++++	----	----	*06:08:01, *06:62 = *06:08:02, *06:62
----	++++	----	++++	----	----	*06:32, *06:63 = *06:32, *06:65 = *06:62, *06:65 =
						*06:63, *06:65 = *06:65, *06:65
----	++++	----	++++	----	----	*06:08:02, *06:18 = *06:18, *06:63
----	++++	----	++++	----	----	*06:08:01, *06:11:01 = *06:08:02, *06:11:01
----	++++	----	++++	----	----	*06:18, *06:32 = *06:18, *06:62
----	++++	----	++++	----	----	*06:14:02, *06:29 = *06:14:02, *06:49
----	++++	----	++++	----	----	*06:33, *06:37 = *06:37, *06:81 = *06:48, *06:81
----	++++	----	++++	----	----	*06:10, *06:37 = *06:10, *06:83
----	++++	----	++++	----	----	*06:46, *06:48 = *06:46, *06:51
----	++++	----	++++	----	----	*06:18, *06:49 = *06:27, *06:49
----	++++	----	++++	----	----	*06:40, *06:60 = *06:40, *06:61
----	++++	----	++++	----	----	*06:28, *06:28 = *06:28, *06:62 = *06:28, *06:63
----	++++	----	++++	----	----	*06:60, *06:64 = *06:61, *06:64
----	++++	----	++++	----	----	*06:31, *06:60 = *06:31, *06:61
----	++++	----	++++	----	----	*06:08:01, *06:67 = *06:08:02, *06:67
----	++++	----	++++	----	----	*06:08:01, *06:60 = *06:08:01, *06:61 = *06:08:02,
						*06:60 = *06:08:02, *06:61
----	++++	----	++++	----	----	*06:08:01, *06:59 = *06:08:02, *06:59
----	++++	----	++++	----	----	*06:32, *06:67 = *06:65, *06:67
----	++++	----	++++	----	----	*06:32, *06:61 = *06:60, *06:65 = *06:61, *06:65
----	++++	----	++++	----	----	*06:32, *06:59 = *06:59, *06:65
----	++++	----	++++	----	----	*06:11:01, *06:67 = *06:11:02, *06:67
----	++++	----	++++	----	----	*06:11:01, *06:61 = *06:11:02, *06:61
----	++++	----	++++	----	----	*06:11:01, *06:59 = *06:11:02, *06:59
++++	----	++++	----	++++	----	*06:57, *06:81 = *06:57, *06:83
----	++++	----	++++	----	----	*06:28, *06:60 = *06:28, *06:61
++++	----	++++	----	++++	----	*06:33, *06:56 = *06:57, *06:79
----	++++	----	++++	----	----	*06:08:01, *06:41 = *06:08:02, *06:41
----	++++	----	++++	----	----	*06:11:01, *06:41 = *06:11:02, *06:41
----	++++	----	++++	----	----	*06:04:01, *06:69 = *06:04:06, *06:69
++++	----	++++	----	++++	----	*06:04:01, *06:66 = *06:38, *06:66
----	++++	----	++++	----	----	*06:04:01, *06:42 = *06:42, *06:58
----	++++	----	++++	----	----	*06:04:01, *06:12 = *06:12, *06:58
----	++++	----	++++	----	----	*06:04:02, *06:25 = *06:04:02, *06:36
----	++++	----	++++	----	----	*06:04:01, *06:07:02 = *06:04:06, *06:07:02 =
						*06:07:02, *06:38 = *06:07:02, *06:58
----	++++	----	++++	----	----	*06:41, *06:60 = *06:41, *06:61
----	++++	----	++++	----	----	*06:03:01, *06:67 = *06:03:04, *06:67 = *06:03:07,
						*06:67
----	++++	----	++++	----	----	*06:03:01, *06:60 = *06:03:01, *06:61 = *06:03:04,
						*06:60 = *06:03:04, *06:61 = *06:03:07, *06:61
----	++++	----	++++	----	----	*06:03:01, *06:59 = *06:03:04, *06:59 = *06:03:07,
						*06:59
----	++++	----	++++	----	----	*06:03:01, *06:41 = *06:03:04, *06:41 = *06:03:07,
						*06:41
----	++++	----	++++	----	----	*06:03:01, *06:44 = *06:03:04, *06:44 = *06:03:07,
						*06:44 = *06:44, *06:44 = *06:44, *06:62 = *06:44,
						*06:63
----	++++	----	++++	----	----	*06:03:01, *06:40 = *06:03:04, *06:40 = *06:03:07,
						*06:40
----	++++	----	++++	----	----	*06:03:01, *06:26N = *06:03:04, *06:26N = *06:03:07,
						*06:26N
----	++++	----	++++	----	----	*06:03:01, *06:30 = *06:03:04, *06:30
----	++++	----	++++	----	----	*06:03:01, *06:64 = *06:03:04, *06:64 = *06:03:07,
						*06:64
----	++++	----	++++	----	----	*06:03:01, *06:31 = *06:03:04, *06:31 = *06:03:07,
						*06:31
----	++++	----	++++	----	----	*06:03:01, *06:08:01 = *06:03:01, *06:08:02 =
						*06:03:04, *06:08:01
----	++++	----	++++	----	----	*06:03:01, *06:32 = *06:03:01, *06:65 = *06:03:04,
						*06:32 = *06:03:04, *06:65 = *06:03:07, *06:65



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

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Lot-specific information

----	----	----	----	----	----	*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 = *06:03:04, *06:11:01 = *06:03:04, *06:11:02 = *06:03:07, *06:11:02
----	----	----	----	----	----	*06:02:05, *06:03:07 = *06:03:07, *06:19
----	----	----	----	----	----	*06:02:01, *06:03:07 = *06:03:07, *06:49
----	----	----	----	----	----	*06:01:01, *06:47 = *06:02:01, *06:43 = *06:43, *06:47
----	----	----	----	----	----	*06:08:02, *06:58 = *06:58, *06:63
----	----	----	----	----	----	*06:32, *06:66 = *06:62, *06:66
----	----	----	----	----	----	*06:07:01, *06:32 = *06:07:01, *06:62
----	----	----	----	----	----	*06:25, *06:32 = *06:25, *06:62
----	----	----	----	----	----	*06:32, *06:58 = *06:58, *06:62
----	----	----	----	----	----	*06:08:01, *06:40 = *06:08:02, *06:40
----	----	----	----	----	----	*06:08:01, *06:26N = *06:08:02, *06:26N
----	----	----	----	----	----	*06:08:01, *06:30 = *06:08:02, *06:30
----	----	----	----	----	----	*06:08:01, *06:64 = *06:08:02, *06:64
----	----	----	----	----	----	*06:08:01, *06:31 = *06:08:02, *06:31
----	----	----	----	----	----	*06:32, *06:40 = *06:40, *06:65
----	----	----	----	----	----	*06:32, *06:64 = *06:64, *06:65
----	----	----	----	----	----	*06:31, *06:32 = *06:31, *06:65
----	----	----	----	----	----	*06:08:01, *06:32 = *06:08:01, *06:65 = *06:08:02, *06:32 = *06:08:02, *06:65 = *06:27, *06:65
----	----	----	----	----	----	*06:14:01, *06:14:01 = *06:14:01, *06:14:02 = *06:14:01, *06:63
----	----	----	----	----	----	*06:10, *06:25 = *06:25, *06:51
----	----	----	----	----	----	*06:11:01, *06:40 = *06:11:02, *06:40
----	----	----	----	----	----	*06:11:01, *06:64 = *06:11:02, *06:64
----	----	----	----	----	----	*06:11:01, *06:31 = *06:11:02, *06:31
----	----	----	----	----	----	*06:08:01, *06:11:02 = *06:08:02, *06:11:02
----	----	----	----	----	----	*06:11:01, *06:65 = *06:11:02, *06:65
----	----	----	----	----	----	*06:14:02, *06:48 = *06:14:02, *06:51
----	----	----	----	----	----	*06:24, *06:30 = *06:24, *06:62 = *06:30, *06:49
----	----	----	----	----	----	*06:11:02, *06:83 = *06:26N, *06:83
----	----	----	----	----	----	*06:08:01, *06:28 = *06:08:02, *06:28
----	----	----	----	----	----	*06:28, *06:32 = *06:28, *06:65
----	----	----	----	----	----	*06:21, *06:60 = *06:21, *06:61
----	----	----	----	----	----	*06:11:01, *06:28 = *06:11:02, *06:28
----	----	----	----	----	----	*06:04:01, *06:08:02 = *06:04:01, *06:63
----	----	----	----	----	----	*06:12, *06:25 = *06:12, *06:36
----	----	----	----	----	----	*06:03:07, *06:39 = *06:03:07, *06:58
----	----	----	----	----	----	*06:07:02, *06:32 = *06:07:02, *06:62
----	----	----	----	----	----	*06:04:01, *06:32 = *06:04:01, *06:62 = *06:04:02, *06:32 = *06:04:02, *06:62
----	----	----	----	----	----	*06:04:01, *06:07:01 = *06:04:02, *06:07:01 = *06:04:02, *06:07:02 = *06:04:06, *06:07:01
----	----	----	----	----	----	*06:44, *06:60 = *06:44, *06:61
----	----	----	----	----	----	*06:03:01, *06:28 = *06:03:04, *06:28 = *06:03:07, *06:28
----	----	----	----	----	----	*06:04:06, *06:41 = *06:04:06, *06:65
----	----	----	----	----	----	*06:03:04, *06:14:01 = *06:03:04, *06:14:02
----	----	----	----	----	----	*06:02:05, *06:39 = *06:02:05, *06:58
----	----	----	----	----	----	*06:02:01, *06:39 = *06:02:01, *06:58
----	----	----	----	----	----	*06:02:05, *06:03:04 = *06:03:04, *06:19
----	----	----	----	----	----	*06:02:01, *06:03:04 = *06:03:04, *06:49
----	----	----	----	----	----	*06:08:01, *06:44 = *06:08:02, *06:44
----	----	----	----	----	----	*06:11:01, *06:44 = *06:11:02, *06:44
----	----	----	----	----	----	*06:05:01, *06:08:02 = *06:05:01, *06:63
----	----	----	----	----	----	*06:05:01, *06:32 = *06:05:01, *06:62
----	----	----	----	----	----	*06:21, *06:32 = *06:21, *06:65
----	----	----	----	----	----	*06:14:01, *06:29 = *06:14:01, *06:49
----	----	----	----	----	----	*06:11:02, *06:81 = *06:26N, *06:33 = *06:26N, *06:81
----	----	----	----	----	----	*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-specific information

---++++--	-----+-	-----+-	+-----++	-----	----	*06:14:01, *06:67 = *06:14:02, *06:67
---++++--	-----+-	-----+-	+-----++	-----	----	*06:14:01, *06:60 = *06:14:01, *06:61 = *06:14:02, *06:61
---++++--	-----+-	-----+-	+-----++	-----	----	*06:14:01, *06:59 = *06:14:02, *06:59
+++++---	-----+-	-----+-	++-----+	++++---	----	*06:28, *06:53 = *06:28, *06:56
---++++--	-----+-	-----+-	+-----++	-----	----	*06:14:01, *06:41 = *06:14:02, *06:41
-----+++	+-----+-	-----+-	+-----++	-----	----	*06:03:07, *06:04:01 = *06:03:07, *06:04:02
-----++++	+-----+-	-----+-	+-----++	-----	----	*06:04:01, *06:08:01 = *06:04:02, *06:08:01 = *06:04:02, *06:08:02 = *06:04:02, *06:63
---++++--	+-----+-	-----+-	+-----++	-----	----	*06:03:04, *06:39 = *06:03:04, *06:58
---++++--	+-----+-	-----+-	+-----++	-----	----	*06:04:01, *06:60 = *06:04:02, *06:60
---++++--	+-----+-	-----+-	+-----++	-----	----	*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 = *06:03:07, *06:14:01
-+-----+	+-----+-	-----+-	-----++	-----	----	*06:04:01, *06:10 = *06:36, *06:51
-+-----+	+-----+-	-----+-	-----++	-----	----	*06:04:01, *06:11:02 = *06:04:02, *06:11:02
-+-----+	+-----+-	-----+-	-----++	-----	----	*06:02:01, *06:04:01 = *06:39, *06:84
-+-----+	+-----+-	-----+-	-----++	-----	----	*06:39, *06:47 = *06:47, *06:58
-+-----+	+-----+-	-----+-	-----++	-----	----	*06:04:01, *06:50 = *06:34, *06:50 = *06:34, *06:84
-+-----+	+-----+-	-----+-	-----++	-----	----	*06:04:01, *06:16 = *06:52, *06:84
---++++--	+-----+-	-----+-	-----++	-----	----	*06:02:05, *06:03:01 = *06:03:01, *06:19
---++++--	+-----+-	-----+-	-----++	-----	----	*06:41, *06:49 = *06:41, *06:84
---++++--	+-----+-	-----+-	-----++	-----	----	*06:02:01, *06:03:01 = *06:03:01, *06:49
---++++--	+-----+-	-----+-	-----++	-----	----	*06:08:02, *06:69 = *06:63, *06:69
---++++--	+-----+-	-----+-	-----++	-----	----	*06:32, *06:69 = *06:62, *06:69
---++++--	+-----+-	-----+-	-----++	-----	----	*06:07:01, *06:63 = *06:07:01, *06:65
---++++--	+-----+-	-----+-	-----++	-----	----	*06:14:01, *06:40 = *06:14:02, *06:40
---++++--	+-----+-	-----+-	-----++	-----	----	*06:14:01, *06:26N = *06:14:02, *06:26N
---++++--	+-----+-	-----+-	-----++	-----	----	*06:14:01, *06:64 = *06:14:02, *06:64
---++++--	+-----+-	-----+-	-----++	-----	----	*06:14:01, *06:31 = *06:14:02, *06:31
---++++--	+-----+-	-----+-	-----++	-----	----	*06:14:01, *06:32 = *06:14:01, *06:65 = *06:14:02, *06:65
---++++--	+-----+-	-----+-	-----++	-----	----	*06:14:01, *06:48 = *06:14:01, *06:51
---++++--	+-----+-	-----+-	-----++	-----	----	*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
---++++--	+-----+-	-----+-	-----++	-----	----	*06:14:01, *06:28 = *06:14:02, *06:28
---++++--	+-----+-	-----+-	-----++	-----	----	*06:28, *06:49 = *06:28, *06:79
+++++---	+-----+-	-----+-	-----++	++++---	----	*06:28, *06:57 = *06:40, *06:56
-+-----+	+-----+-	-----+-	-----++	-----	----	*06:16, *06:34 = *06:50, *06:52
---++++--	+-----+-	-----+-	-----++	-----	----	*06:33, *06:41 = *06:40, *06:84
---++++--	+-----+-	-----+-	-----++	-----	----	*06:20, *06:41 = *06:31, *06:84
---++++--	+-----+-	-----+-	-----++	-----	----	*06:07:02, *06:41 = *06:07:02, *06:65
---++++--	+-----+-	-----+-	-----++	-----	----	*06:03:01, *06:07:01 = *06:03:04, *06:07:01
---++++--	+-----+-	-----+-	-----++	-----	----	*06:04:01, *06:41 = *06:04:01, *06:65 = *06:04:02, *06:41 = *06:04:02, *06:65 = *06:41, *06:58
---++++--	+-----+-	-----+-	-----++	-----	----	*06:03:01, *06:39 = *06:03:01, *06:58 = *06:39, *06:65
---++++--	+-----+-	-----+-	-----++	-----	----	*06:02:01, *06:41 = *06:03:01, *06:84
---++++--	+-----+-	-----+-	-----++	-----	----	*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
+++++---	+-----+-	-----+-	-----++	++++---	----	*06:01:01, *06:44 = *06:03:01, *06:43 = *06:43, *06:44
---++++--	+-----+-	-----+-	-----++	-----	----	*06:14:01, *06:44 = *06:14:02, *06:44
---++++--	+-----+-	-----+-	-----++	-----	----	*06:05:01, *06:31 = *06:05:01, *06:65
---++++--	+-----+-	-----+-	-----++	-----	----	*06:07:01, *06:08:01 = *06:07:01, *06:08:02
-+-----+	+-----+-	-----+-	-----++	-----	----	*06:37, *06:69 = *06:69, *06:83
---++++--	+-----+-	-----+-	-----++	-----	----	*06:40, *06:81 = *06:40, *06:83
---++++--	+-----+-	-----+-	-----++	-----	----	*06:20, *06:40 = *06:31, *06:33
---++++--	+-----+-	-----+-	-----++	-----	----	*06:28, *06:33 = *06:40, *06:79





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

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+++++--	-----	-----+-	+++++--	-----	----	*06:20, *06:28 = *06:31, *06:79
-----+	-----	-----+-	+++++--	-----	----	*06:04:01, *06:67 = *06:04:02, *06:67
-----+	-----	-----+-	+++++--	-----	----	*06:04:01, *06:61 = *06:04:02, *06:61
-----+	-----	-----+-	+++++--	-----	----	*06:04:01, *06:59 = *06:04:02, *06:59
-----+	-----	-----+-	+++++--	-----	----	*06:03:01, *06:04:01 = *06:03:01, *06:04:02 =
-----+	-----	-----+-	+++++--	-----	----	*06:03:04, *06:04:02 = *06:39, *06:41
-----+	-----	-----+-	+++++--	-----	----	*06:39, *06:44 = *06:44, *06:58
-----+	-----	-----+-	+++++--	-----	----	*06:34, *06:41 = *06:34, *06:65
-----+	-----	-----+-	+++++--	-----	----	*06:04:01, *06:40 = *06:04:02, *06:40
-----+	-----	-----+-	+++++--	-----	----	*06:07:02, *06:08:01 = *06:38, *06:41 = *06:38, *06:65
-----+	-----	-----+-	+++++--	-----	----	*06:36, *06:41 = *06:36, *06:65
-----+	-----	-----+-	+++++--	-----	----	*06:41, *06:52 = *06:52, *06:65
-----+	-----	-----+-	+++++--	-----	----	*06:04:01, *06:64 = *06:04:02, *06:64
-----+	-----	-----+-	+++++--	-----	----	*06:04:01, *06:31 = *06:04:02, *06:31
-----+	-----	-----+-	+++++--	-----	----	*06:41, *06:47 = *06:44, *06:84
-----+	-----	-----+-	+++++--	-----	----	*06:02:01, *06:28 = *06:03:01, *06:79
-----+	-----	-----+-	+++++--	-----	----	*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
-----+	-----	-----+-	+++++--	-----	----	*06:04:01, *06:28 = *06:04:02, *06:28

- \*06:01:01 = \*06:01:01, 06:01:03-06:01:06 and 06:01:08
- \*06:01:02 = \*06:01:02 and 06:01:07
- \*06:02:01 = \*06:02:01-06:02:04 and 06:02:06
- \*06:03:01 = \*06:03:01-06:03:03 and 06:03:05-06:03:06
- \*06:04:01 = \*06:04:01 and 06:04:03-06:04:05
- \*06:15:01 = \*06:15:01-06:15:02
- \*06:70 = \*06:70 and 06:75N



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

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Lot-specific information

## SPECIFICITY TABLE

### DQB1\*06 SSP subtyping

Specificities and sizes of the PCR products of the 44 primer mixes used for DQB1\*06 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified DQB1*06 alleles <sup>3</sup>	Amplified non-DQB1*06 alleles <sup>4</sup>
<b>1</b>	220 bp	<b>515 bp</b>	*06:01:01-06:01:08, 06:35, 06:43, 06:45, 06:53-06:57, 06:82	
<b>2</b>	210 bp	430 bp	*06:01:01-06:02:06, 06:05:02 <sup>?</sup> -06:06 <sup>?</sup> , 06:10-06:11:02, 06:13:01-06:13:02, 06:16, 06:18-06:20, 06:24, 06:29, 06:33, 06:35, 06:37, 06:43, 06:45, 06:47-06:51, 06:53-06:57, 06:68, 06:70-06:84	
<b>3</b>	185 bp	430 bp	*06:02:01-06:02:06, 06:14:01-06:16, 06:19-06:20, 06:23-06:24, 06:33, 06:37, 06:46-06:50, 06:68, 06:70-06:84	
<b>4</b>	130 bp	430 bp	*06:03:01-06:03:06, 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, 06:59-06:62, 06:64-06:65, 06:67	
<b>5</b>	160 bp	430 bp	*06:03:01-06:03:03, 06:03:05-06:03:07, 06:04:02, 06:07:01, 06:08:01, 06:09:02, 06:11:01-06:11:02, 06:26N, 06:28, 06:30-06:32, 06:40-06:41, 06:44, 06:59-06:62, 06:64-06:65, 06:67	*03:23
<b>6</b>	170 bp	<b>515 bp</b>	*06:03:01-06:03:06, 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, 06:59, 06:61, 06:63-06:65, 06:67	

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

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<b>7</b>	210 bp	<b>515 bp</b>	*06:04:01-06:04:05, 06:07:01-06:07:02, 06:17, 06:21, 06:25, 06:34, 06:36, 06:38-06:39, 06:52, 06:58, 06:69
<b>8<sup>5,6,8,10</sup></b>	90 bp, 175 bp	430 bp	*06:04:01-06:07:02, 06:09:01-06:09:03, 06:18, 06:22:02, 06:25, 06:27, 06:32, 06:34, 06:36, 06:38-06:39, 06:52, 06:58, 06:65-06:66, 06:69
<b>9<sup>6,8</sup></b>	130 bp	430 bp	*06:04:01-06:05:01, 06:06, 06:08:01-06:09:03, 06:12, 06:17-06:18, 06:21, 06:22:02, 06:27, 06:34, 06:36, 06:38-06:39, 06:42, 06:52, 06:58, 06:69
<b>10<sup>9</sup></b>	260 bp	<b>515 bp</b>	*06:05:01, 06:05:02 <sup>?</sup> -06:06 <sup>?</sup> , 06:20, 06:31, 06:45
<b>11<sup>8</sup></b>	210 bp	430 bp	*06:05:01, 06:05:02 <sup>?</sup> -06:06 <sup>?</sup> , 06:09:01-06:09:03, 06:12, 06:15:01-06:15:02, 06:22:01-06:22:02, 06:42, 06:46, 06:66
<b>12<sup>5,11</sup></b>	100 bp, 180 bp	430 bp	*06:06, 06:64
<b>13<sup>12</sup></b>	185 bp, 225 bp	430 bp	*06:05:02, 06:10, 06:15:01-06:15:02, 06:22:01-06:22:02, 06:37, 06:48, 06:51, 06:69
<b>14</b>	130 bp	430 bp	*06:13:01-06:13:02, 06:22:01, 06:55
<b>15<sup>5,8,13</sup></b>	100 bp, 185 bp	430 bp	*06:14:01-06:14:02, 06:29, 06:69
<b>16<sup>14</sup></b>	195 bp, 300 bp	430 bp	*06:16, 06:52
<b>17<sup>5</sup></b>	110 bp	430 bp	*06:23
<b>18<sup>7</sup></b>	175 bp	430 bp	*06:17, 06:24, 06:30, 06:42
<b>19</b>	135 bp	430 bp	*06:10, 06:25, 06:36

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

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Lot-specific information

<b>20</b> <sup>5,15</sup>	110 bp, 210 bp, 260 bp	<b>515 bp</b>	*06:26N, 06:37, 06:81, 06:83	
<b>21</b>	160 bp	430 bp	*06:02:01-06:02:04, 06:02:06, 06:10, 06:13:01, 06:14:01- 06:16, 06:20, 06:23-06:24, 06:29, 06:33, 06:37, 06:46- 06:51, 06:68, 06:70-06:84	
<b>22</b> <sup>16</sup>	130 bp, 195 bp	<b>515 bp</b>	*06:07:01-06:07:02, 06:15:01- 06:15:02, 06:38, 06:46, 06:66	
<b>23</b>	160 bp	<b>515 bp</b>	*06:03:01-06:03:07, 06:08:01- 06:08:02, 06:14:01-06:14:02, 06:21, 06:28, 06:31, 06:40- 06:41, 06:44, 06:59, 06:61, 06:63-06:65, 06:67	
<b>24</b> <sup>6</sup>	155 bp	430 bp	*06:02:05, 06:19	*03:30, 03:72, 04:01:01- 04:03:02, 04:06-04:08, 04:12
<b>25</b> <sup>17</sup>	210 bp, 260 bp	430 bp	*06:03:01-06:03:07, 06:06 <sup>?</sup> , 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, 06:59-06:65, 06:67	
<b>26</b> <sup>18</sup>	165 bp, 190 bp	430 bp	*06:28, 06:35, 06:53, 06:56, 06:79	*05:04 <sup>?</sup>
<b>27</b> <sup>19</sup>	215 bp, 265 bp	430 bp	*06:33, 06:40, 06:57, 06:81	
<b>28</b> <sup>8,20</sup>	180 bp, 300 bp	<b>515 bp</b>	*06:34, 06:50	
<b>29</b> <sup>5</sup>	90 bp	430 bp	*06:04:01-06:04:05, 06:05:01, 06:05:02 <sup>?</sup> -06:06 <sup>?</sup> , 06:07:01- 06:07:02, 06:09:01-06:09:03, 06:15:01-06:15:02, 06:22:01- 06:22:02, 06:25, 06:34, 06:36, 06:38-06:39, 06:52, 06:58, 06:66, 06:69	

101.212.24/04 – including *Taq* pol., IFU-01  
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Lot No.: **53S**

Lot-specific information

<b>30</b> <sup>5,8</sup>	115 bp	430 bp	*06:02:01-06:03:07, 06:05:01 <sup>?</sup> - 06:07:01 <sup>?</sup> , 06:08:01 <sup>?</sup> -06:08:02 <sup>?</sup> , 06:09:02 <sup>?</sup> -06:11:02 <sup>?</sup> , 06:13:01 <sup>?</sup> - 06:33 <sup>?</sup> , 06:35 <sup>?</sup> , 06:37 <sup>?</sup> , 06:39, 06:40 <sup>?</sup> , 06:44, 06:45 <sup>?</sup> -06:46 <sup>?</sup> , 06:47, 06:48 <sup>?</sup> -06:50 <sup>?</sup> , 06:53 <sup>?</sup> - 06:83 <sup>?</sup>	
<b>31</b> <sup>5,8,21</sup>	100 bp, 220 bp	430 bp	*06:43-06:44, 06:47	
<b>32</b> <sup>5,6</sup>	115 bp	430 bp	*06:04:01-06:04:06, 06:05:01 <sup>?</sup> - 06:07:01 <sup>?</sup> , 06:07:02, 06:08:01 <sup>?</sup> - 06:08:02 <sup>?</sup> , 06:09:01-06:09:03, 06:10 <sup>?</sup> -06:11:02 <sup>?</sup> , 06:12, 06:13:01 <sup>?</sup> -06:33 <sup>?</sup> , 06:34, 06:35 <sup>?</sup> , 06:36, 06:37 <sup>?</sup> , 06:38, 06:40 <sup>?</sup> , 06:41-06:42, 06:45 <sup>?</sup> -06:46 <sup>?</sup> , 06:48 <sup>?</sup> -06:50 <sup>?</sup> , 06:52, 06:53 <sup>?</sup> - 06:83 <sup>?</sup> , 06:84	
<b>33</b>	190 bp	430 bp	*06:28, 06:56, 06:79	*05:04 <sup>?</sup>
<b>34</b> <sup>8</sup>	145 bp	430 bp	*06:01:01, 06:01:03-06:01:06, 06:01:08, 06:43, 06:53-06:57	*03:10, 03:12, 03:14:02, 03:70
<b>35</b>	185 bp	430 bp	*06:54N	
<b>36</b>	170 bp	430 bp	*06:71, 06:77N-06:78	
<b>37</b> <sup>5,22</sup>	120 bp, 175 bp	430 bp	*06:76-06:77N, 06:80	
<b>38</b> <sup>23</sup>	165 bp, 285 bp	430 bp	*06:72-06:73, 06:78	
<b>39</b> <sup>5,24</sup>	120 bp, 270 bp	430 bp	*06:73-06:74, 06:80	
<b>40</b> <sup>5,7,8,25</sup>	105 bp, 195 bp	430 bp	*06:70, 06:75N	
<b>41</b> <sup>5</sup>	105 bp	430 bp	*06:59	
<b>42</b>	190 bp	430 bp	*06:60-06:61	
<b>43</b>	170 bp	430 bp	*06:68	
<b>44</b>	175 bp	430 bp	*06:67	

101.212.24/04 – including *Taq* pol., IFU-01  
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**Lot No.: 53S****Lot-specific information**

<sup>1</sup>Alleles 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

<sup>2</sup>The 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.

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

<sup>3</sup>For several DQB1 alleles 1<sup>st</sup> and/or 3<sup>rd</sup> 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.

<sup>4</sup>Due to the sharing of sequence motif between DQB1 alleles, the DQB1\*03:10, 03:12, 03:14:02 and 03:70 alleles will be amplified by primer mix 34, the DQB1\*03:23 allele will be amplified by primer mix 5, the DQB1\*03:30 and 03:72 alleles will be amplified by primer mixes 13 and 24, the 04:01:01-04:03:02, 04:06-04:08 and 04:12 alleles will be amplified by primer mix 24 and the DQB1\*05:04 allele will be amplified by primer mixes 10, 26 and 33.

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

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

<sup>7</sup>Primer mixes 18 and 40 have a tendency to giving rise to primer oligomer formation.

<sup>8</sup>Primer mixes 8, 9, 11, 15, 20, 28, 30, 31, 34 and 40 may have tendencies of unspecific amplifications.

<sup>9</sup>The 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.

<sup>10</sup>Primer mix 8: Specific PCR fragment of 90 bp in the DQB1\*06:65 allele. Specific PCR fragment of 175 bp in the DQB1\*06:04:01-06:07:02, 06:09:01-06:09:03, 06:18, 06:22:02, 06:25, 06:27, 06:32, 06:34, 06:36, 06:38-06:39, 06:52, 06:58, 06:66 and 06:69 alleles.

<sup>11</sup>Primer mix 12: Specific PCR fragment of 100 bp in the DQB1\*06:64 allele. Specific PCR fragment of 180 bp in the DQB1\*06:06 allele.

<sup>12</sup>Primer 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, 06:15:01-06:15:02, 06:22:01-06:22:02, 06:37, 06:48, 06:51 and 06:69 and the DQB1\*03:30 and 03:72 alleles.

<sup>13</sup>Primer mix 15: Specific PCR fragment of 100 bp in the DQB1\*06:14:01-06:14:02 and 06:69 alleles. Specific PCR fragment of 185 bp in the DQB1\*06:29 allele.

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<sup>14</sup>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.

<sup>15</sup>Primer mix 20: Specific PCR fragment of 110 bp in the DQB1\*06:37 allele. Specific PCR fragment of 210 bp in the DQB1\*06:26N and 06:81 alleles. Specific PCR fragment of 260 bp in the DQB1\*06:83 allele.

<sup>16</sup>Primer mix 22: Specific PCR fragment of 130 bp in the DQB1\*06:07:01-06:07:02, 06:15:01-06:15:02, 06:46 and 06:66 alleles. Specific PCR fragment of 195 bp in the DQB1\*06:38 allele.

<sup>17</sup>Primer mix 25: Specific PCR fragment of 210 bp in the DQB1\*06:03:01-06:03:07, 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, 06:59-06:65 and 06:67 alleles. Specific PCR fragment of 260 bp in the DQB1 \*06:06<sup>?</sup> and 06:49 alleles.

<sup>18</sup>Primer mix 26: Specific PCR fragment of 165 bp in the DQB1\*06:35 and 06:53 alleles. Specific PCR fragment of 190 bp in the DQB1\*06:28, 06:56 and 06:79 and in the DQB1\*05:04<sup>?</sup> alleles.

<sup>19</sup>Primer mix 27: Specific PCR fragment of 215 bp in the DQB1\*06:40, 06:57 and 06:81 alleles. Specific PCR fragment of 265 bp in the DQB1\*06:33 allele.

<sup>20</sup>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.

<sup>21</sup>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.

<sup>22</sup>Primer mix 37: Specific PCR fragment of 120 bp in the DQB1\*06:80 allele. Specific PCR fragment of 175 bp in the DQB1\*06:76 and 06:77N alleles.

<sup>23</sup>Primer mix 38: Specific PCR fragment of 165 bp in the DQB1\*06:78 allele. Specific PCR fragment of 285 bp in the DQB1\*06:72 and 06:73 alleles.

<sup>24</sup>Primer mix 39: Specific PCR fragment of 120 bp in the DQB1\*06:80 allele. Specific PCR fragment of 270 bp in the DQB1\*06:73 and \*06:74 alleles.

<sup>25</sup>Primer mix 40: Specific PCR fragment of 105 bp in the DQB1\*06:70 allele. Specific PCR fragment of 195 bp in the DQB1\*06:75N allele.

'w', may be weakly amplified.

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

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Lot No.: 53S

Lot-specific information

INTERPRETATION TABLE																								
DQB1*06 SSP subtyping																								
Amplification patterns of the DQB1*06:01 to 06:84 alleles																								
	Well <sup>5</sup>																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.	220	210	185	130	160	170	210	90	130	260	210	100	185	130	100	195	110	175	135	110	160	130	160	155
PCR product(s)								175				180	225		185	300				260		195		
Length of int. pos. control <sup>1</sup>	515	430	430	430	430	515	515	430	430	515	430	430	430	430	430	430	430	430	430	515	430	515	515	430
5'-primer(s) <sup>2</sup>	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)	26(173)	26(173)	26(173)	13(136)	9(122)	57(266)	29(184)	9(122)
	5'-TTA <sup>3'</sup>	5'-gAT <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-gTA <sup>3'</sup>	5'-gTA <sup>3'</sup>	5'-gTA <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-gTA <sup>3'</sup>	5'-gTA <sup>3'</sup>	5'-gCC <sup>3'</sup>	5'-gAT <sup>3'</sup>	5'-gTA <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-ggg <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-TCT <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-TgA <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-gTT <sup>3'</sup>
		5'-gAT <sup>3'</sup>														5'-CAT <sup>3'</sup>			5'-ACT <sup>3'</sup>	5'-CCT <sup>3'</sup>		5'-TCA <sup>3'</sup>		
																				5'-AAg <sup>3'</sup>	5'-ACT <sup>3'</sup>			
																				62(282)	30(187)			
3'-primer(s) <sup>3</sup>	86(353)	86(353)	57(266)	57(266)	48(240)	69(304)	86(353)	43(224)	57(266)	86(353)	86(353)	47(238)	56(265)	57(266)	27(177)	59(274)	48(240)	70(307)	56(265)	86(353)	86(353)	48(240)	86(353)	69(304)
	5'-ACg <sup>3'</sup>	5'-ACg <sup>3'</sup>	5'-CAT <sup>3'</sup>	5'-CAT <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-CCC <sup>3'</sup>	5'-ACC <sup>3'</sup>	5'-Cg <sup>3'</sup>	5'-CAA <sup>3'</sup>	5'-ACC <sup>3'</sup>	5'-ACC <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-CAA <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-gTT <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-ggC <sup>3'</sup>	5'-gCT <sup>3'</sup>	5'-ACg <sup>3'</sup>	5'-gCg <sup>3'</sup>	5'-ACC <sup>3'</sup>	5'-CCC <sup>3'</sup>	5'-CgA <sup>3'</sup>
								69(304)		87(356)		74(317)	69(304)		29(184)	185(650)				186(653)		185(650)		
								5'-CCT <sup>3'</sup>		5'-gga <sup>3'</sup>		5'-Cg <sup>3'</sup>	5'-CCT <sup>3'</sup>		5'-gTg <sup>3'</sup>	5'-Cgg <sup>3'</sup>				5'-CCg <sup>3'</sup>		5'-Cgg <sup>3'</sup>		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24







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

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Lot-specific information

Length of spec.	220	210	185	130	160	170	210	90	130	260	210	100	185	130	95	195	110	175	135	110	160	130	160	155
PCR product(s)								175				180	225		105	300				260	210		195	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DQB1 allele																								
*06:01:01, 06:01:03-06:01:06, 06:01:08	1	2																						
*06:01:02, 06:01:07	1	2																						
*06:02:01-06:02:04, 06:02:06			2	3																	21			
*06:02:05		2	3																					24
*06:03:01-06:03:03, 06:03:05-06:03:06				4	5	6																		23
*06:03:04				4		6																		23
*06:03:07					5																			23
*06:04:01, 06:04:03-06:04:05							7	8	9															
*06:04:02					5		7	8	9															
*06:04:06								8	9															
*06:05:01								8	9	10	11													
*06:05:02		?						8		?	?		13											
*06:06		?						8	9	?	?	12												
*06:07:01				4	5		7	8															22	
*06:07:02				4			7	8															22	
*06:08:01					5	6			9															23
*06:08:02						6			9															23
*06:09:01								8	9		11													
*06:09:02					5			8	9		11													
*06:09:03								8	9		11													
*06:10		2											13					19			21			
*06:11:01		2			5																			
*06:11:02		2		4	5	6																		
*06:12						6			9		11													
*06:13:01		2												14								21		
*06:13:02		2												14										
*06:14:01			3	4		6									15							21	23	
*06:14:02			3												15							21	23	
*06:15:01-06:15:02			3								11		13									21	22	
*06:16		2	3												16							21		
*06:17							7		9									18						
*06:18		2						8	9															
*06:19		2	3																					24
*06:20		2	3							10												21		
*06:21						6	7		9															23
*06:22:01											11		13	14										
*06:22:02								8	9		11		13											
*06:23			3														17					21		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24



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

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Lot No.: **53S**

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210	165	215	180	90	115	100	115	190	145	185	170	120	165	120	105	105	190	170	175	Length of spec.	
260	190	265	300			220						175	285	270	195					PCR product(s)	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.	
																				DQB1 allele	
									34											*06:01:01, 06:01:03-06:01:06, 06:01:08	
					30																*06:01:02, 06:01:07
					30																*06:02:01-06:02:04, 06:02:06
																					*06:02:05
25					30																*06:03:01-06:03:03, 06:03:05-06:03:06
25					30																*06:03:04
25					30																*06:03:07
				29			32														*06:04:01, 06:04:03-06:04:05
				29			32														*06:04:02
							32														*06:04:06
				29	?		?														*06:05:01
				?	?		?														*06:05:02
?				?	?		?														*06:06
				29	?		?														*06:07:01
				29			32														*06:07:02
25					?		?														*06:08:01
25					?		?														*06:08:02
				29			32														*06:09:01
				29	?		32														*06:09:02
				29	?		32														*06:09:03
					?		?														*06:10
					?		?														*06:11:01
					?		?														*06:11:02
							32														*06:12
					?		?														*06:13:01
					?		?														*06:13:02
25					?		?														*06:14:01
25					?		?														*06:14:02
				29	?		?														*06:15:01-06:15:02
					?		?														*06:16
					?		?														*06:17
					?		?														*06:18
					?		?														*06:19
					?		?														*06:20
					?		?														*06:21
				29	?		?														*06:22:01
				29	?		?														*06:22:02
					?		?														*06:23
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.	



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

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Lot-specific information

Length of spec.	220	210	185	130	160	170	210	90	130	260	210	100	185	130	95	195	110	175	135	110	160	130	160	155	
PCR product(s)								175				180	225		105	300				260	210		195		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
*06:24		2	3															18			21				
*06:25							7	8											19						
*06:26N				4	5	6														20					
*06:27								8	9																
*06:28				4	5	6																		23	
*06:29		2													15						21				
*06:30				4	5													18							
*06:31				4	5	6				10														23	
*06:32				4	5			8																	
*06:33		2	3																			21			
*06:34							7	8	9																
*06:35	1	2																							
*06:36							7	8	9										19						
*06:37		2	3										13							20	21				
*06:38							7	8	9														22		
*06:39							7	8	9																
*06:40				4	5	6																		23	
*06:41				4	5	6																		23	
*06:42									9		11							18							
*06:43	1	2																							
*06:44				4	5	6																		23	
*06:45	1	2								10															
*06:46			3								11											21	22		
*06:47		2	3																			21			
*06:48		2	3											13								21			
*06:49		2	3																			21			
*06:50		2	3																			21			
*06:51		2												13								21			
*06:52							7	8	9							16									
*06:53	1	2																							
*06:54N	1	2																							
*06:55	1	2												14											
*06:56	1	2																							
*06:57	1	2																							
*06:58							7	8	9																
*06:59				4	5	6																		23	
*06:60				4	5																				
*06:61				4	5	6																		23	
*06:62				4	5																				
*06:63					6																			23	
*06:64				4	5	6						12												23	
*06:65				4	5	6		8																23	
*06:66								8			11												22		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	



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

Visit [www.olerup-ssp.com](http://www.olerup-ssp.com) for  
 “Instructions for Use” (IFU)

Lot No.: **53S**

Lot-specific information

210	165	215	180	90	115	100	115	190	145	185	170	120	165	120	105	105	190	170	175	Length of spec.	
260	190	265	300			220						175	285	270	195					PCR product(s)	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.	
					?		?													*06:24	
				29	?		?														*06:25
					?		?														*06:26N
25					?		?														*06:27
25	26				?		?	33													*06:28
					?		?														*06:29
25					?		?														*06:30
25					?		?														*06:31
25					?		?														*06:32
		27			?		?														*06:33
			28	29			32														*06:34
	26				?		?														*06:35
				29			32														*06:36
					?		?														*06:37
				29			32														*06:38
				29	30																*06:39
25		27			?		?														*06:40
25							32														*06:41
							32														*06:42
						31		34													*06:43
25					30	31															*06:44
					?		?														*06:45
					?		?														*06:46
					30	31															*06:47
					?		?														*06:48
					?		?														*06:49
			28		?		?														*06:50
																					*06:51
				29			32														*06:52
	26				?		?	34													*06:53
					?		?	34	35												*06:54N
					?		?	34													*06:55
	26				?		?	33	34												*06:56
		27			?		?	34													*06:57
				29	?		?														*06:58
25					?		?									41					*06:59
25					?		?										42				*06:60
25					?		?										42				*06:61
25					?		?														*06:62
25					?		?														*06:63
25					?		?														*06:64
25					?		?														*06:65
				29	?		?														*06:66
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.	



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.: **53S**

Lot-specific information

Length of spec.	220	210	185	130	160	170	210	90	130	260	210	100	185	130	95	195	110	175	135	110	160	130	160	155	
PCR product(s)								175				180	225		105	300				260	210		195		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
*06:67				4	5	6																		23	
*06:68		2	3																			21			
*06:69							7	8	9				13		15										
*06:70, 06:75N <sup>4</sup>		2	3																			21			
*06:71		2	3																			21			
*06:72		2	3																			21			
*06:73		2	3																			21			
*06:74		2	3																			21			
*06:76		2	3																			21			
*06:77N		2	3																			21			
*06:78		2	3																			21			
*06:79		2	3																			21			
*06:80		2	3																			21			
*06:81		2	3																		20	21			
*06:82	1	2	3																			21			
*06:83		2	3																		20	21			
*06:84		2	3																			21			
*03:10, 03:12, 03:14:02, 03:70																									
*03:23					5																				
*03:30, 03:72													13											24	
*04:01:01-04:03:02, 04:06-04:08, 04:12																								24	
*05:04										?															
DQB1 allele																									
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	

<sup>1</sup>The 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.

<sup>2</sup>The codon, and in parenthesis the nucleotide, in the 2<sup>nd</sup> or 3<sup>rd</sup> 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](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>3</sup>The codon, and in parenthesis the nucleotide, in the 2<sup>nd</sup> or 3<sup>rd</sup> 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](http://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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Lot No.: **53S**

Lot-specific information

																Length of spec.				
210	165	215	180	90	115	100	115	190	145	185	170	120	165	120	105	105	190	170	175	PCR product(s)
260	190	265	300			220						175	285	270	195					
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.
					?		?												44	*06:67
					?		?											43		*06:68
				29	?		?													*06:69
					?		?								40					*06:70, 06:75N <sup>4</sup>
					?		?				36									*06:71
					?		?						38							*06:72
					?		?						38	39						*06:73
					?		?							39						*06:74
					?		?					37								*06:76
					?		?				36	37								*06:77N
					?		?				36		38							*06:78
	26				?		?	33												*06:79
					?		?					37		39						*06:80
		27			?		?													*06:81
					?		?													*06:82
					?		?													*06:83
							32													*06:84
									34											*03:10, 03:12, 03:14:02, 03:70
																				*03:23
																				*03:30, 03:72
																				*04:01:01-04:03:02, 04:06-04:08, 04:12
	?							?												*05:04
																DQB1 allele				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	Well No.

<sup>4</sup>The DQB1\*06:70 and DQB1\*06:75alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 40.

<sup>5</sup>Primer mix 8: Specific PCR fragment of 90 bp in the DQB1\*06:65 allele. Specific PCR fragment of 175 bp in the DQB1\*06:04:01-06:07:02, 06:09:01-06:09:03, 06:18, 06:22:02, 06:25, 06:27, 06:32, 06:34, 06:36, 06:38-06:39, 06:52, 06:58, 06:66 and 06:69 alleles.

Primer mix 12: Specific PCR fragment of 100 bp in the DQB1\*06:64 allele. Specific PCR fragment of 180 bp in the DQB1\*06:06 allele.

Primer 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, 06:15:01-06:15:02, 06:22:01-06:22:02, 06:37, 06:48, 06:51 and 06:69 and the DQB1\*03:30 and 03:72 alleles.

Primer mix 15: Specific PCR fragment of 100 bp in the DQB1\*06:14:01-06:14:02 and 06:69 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 210 bp in the DQB1\*06:26N and 06:81 alleles. Specific PCR fragment of 260 bp in the DQB1\*06:83 allele.



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

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**Lot No.: 53S****Lot-specific information**

Primer mix 22: Specific PCR fragment of 130 bp in the DQB1\*06:07:01-06:07:02, 06:15:01-06:15:02, 06:46 and 06:66 alleles. Specific PCR fragment of 195 bp in the DQB1\*06:38 allele.

Primer mix 25: Specific PCR fragment of 210 bp in the DQB1\*06:03:01-06:03:07, 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, 06:59-06:65 and 06:67 alleles. Specific PCR fragment of 260 bp in the DQB1 \*06:06<sup>?</sup> and 06:49 alleles.

Primer mix 26: Specific PCR fragment of 165 bp in the DQB1\*06:35 and 06:53 alleles. Specific PCR fragment of 190 bp in the DQB1\*06:28, 06:56 and 06:79 and in the DQB1\*05:04<sup>?</sup> alleles.

Primer mix 27: Specific PCR fragment of 215 bp in the DQB1\*06:40, 06:57 and 06:81 alleles. 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.

Primer mix 37: Specific PCR fragment of 120 bp in the DQB1\*06:80 allele. Specific PCR fragment of 175 bp in the DQB1\*06:76 and 06:77N alleles.

Primer mix 38: Specific PCR fragment of 165 bp in the DQB1\*06:78 allele. Specific PCR fragment of 285 bp in the DQB1\*06:72 and 06:73 alleles.

Primer mix 39: Specific PCR fragment of 120 bp in the DQB1\*06:80 allele. Specific PCR fragment of 270 bp in the DQB1\*06:73 and \*06:74 alleles.

Primer mix 40: Specific PCR fragment of 105 bp in the DQB1\*06:70 allele. Specific PCR fragment of 195 bp in the DQB1\*06:75N 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

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 “Instructions for Use” (IFU)

Lot No.: **53S**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>DQB1*06 SSP subtyping kit</b>																			
				<b>Well</b>															
				<b>Prod. No.</b>															
				201075701	201075702	201075703	201075704	201075705	201075706	201075707	201320508	201075709	201211610	201075711	201320512	201206713	201075714	201075715	201206716
<b>IHWC cell line</b>		<b>DQB1</b>		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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.: **53S**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>DQB1*06 SSP subtyping kit</b>																				
				<b>Well</b>																
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
				Prod. No.	201320517	201075718	201075719	201320520	201075721	201075722	201075723	201320524	201206725	201294226	201320527	201206728	201075729	201320530	201294231	201320532
	<b>IHWC cell line</b>	<b>DQB1</b>																		
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.: **53S**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																	
<b>DQB1*06 SSP subtyping kit</b>																	
			Prod. No.	Well													
				33	34	35	36	37	38	39	40	41	42	43	44		
				201320533	201320534	201320535	201320536	201320537	201320538	201320539	201320540	201320541	201320542	201320543	201320544		
	<b>IHWC cell line</b>	<b>DQB1</b>															
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.: **53S**

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:** 53S

**Expiry date:** 2016-January-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:** 44

#### Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2010-757-01	17	2013-205-17	33	2013-205-33
2	2010-757-02	18	2010-757-18	34	2013-205-34
3	2010-757-03	19	2010-757-19	35	2013-205-35
4	2010-757-04	20	2013-205-20	36	2013-205-36
5	2010-757-05	21	2010-757-21	37	2013-205-37
6	2010-757-06	22	2010-757-22	38	2013-205-38
7	2010-757-07	23	2010-757-23	39	2013-205-39
8	2013-205-08	24	2013-205-24	40	2013-205-40
9	2010-757-09	25	2012-067-25	41	2013-205-41
10	2012-116-10	26	2012-942-26	42	2013-205-42
11	2010-757-11	27	2013-205-27	43	2013-205-43
12	2013-205-12	28	2012-067-28	44	2013-205-44
13	2012-067-13	29	2010-757-29		
14	2010-757-14	30	2013-205-30		
15	2010-757-15	31	2012-942-31		
16	2012-067-16	32	2013-205-32		

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, 31, 33 and 35 to 44 were available. The specificities of the primers in primer solutions 10, 12 to 17, 19, 22, 26 and 33 were tested by separately adding additional 5'-primers, respectively additional 3'-primers. In primer solutions 18, 28, 31, 35 to 40 and 42 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 20, 27, 41, 43 and 44 it was only possible to test the 3'-primer, the 5'-primer was not possible to test.

In primer solution 8, 12, 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.

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.: **53S**

Lot-specific information

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

**Date of approval:** 2013-July-23

**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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“Instructions for Use” (IFU)

Lot No.: **53S**

Lot-specific information

## Declaration of Conformity

**Product name:** *Olerup* SSP® DQB1\*06  
**Product number:** 101.212-24/24u, -04/04u  
**Lot number:** 53S

**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 13485:2012, 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.: **53S**

Lot-specific information

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

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Lot No.: **53S**

Lot-specific information

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For information on *Olerup* SSP distributors worldwide, contact **Olerup GmbH.**