

101. 411-24/06 – including *Taq* polymerase, IFU-01
101. 411-24u/06u – without *Taq* polymerase, IFU-02

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

Lot No.: **06N**

Lot-specific information

Olerup SSP[®] HLA-A*01

Product number:	101.411-24/06 – including <i>Taq</i> pol. 101.411-24u/06u – without <i>Taq</i> pol.
Lot number:	06N
Expiry date:	2014-July-01
Number of tests:	24 test – Product No. 101.411-24/24u 6 tests – Product No. 101.411-06/06u
Number of wells per test:	48
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. 06N.

CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*[®] HLA-A*01 Lot

The HLA-A*01 kit is updated for new alleles to enable separation of:

- Confirmed¹ alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

The Lot-specific information for HLA-A*01 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

The HLA-A*01 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP*[®] HLA-A*01 lot was made (Lot No. 67K).

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

101. 411-24/06 – including *Taq* polymerase, IFU-01101. 411-24u/06u – without *Taq* polymerase, IFU-02Visit www.olerup-ssp.com for
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Well	5'-primer	3'-primer	rationale
8	-	Exchanged	Decreased primer oligomer formation.
26	-	Added	Primer added for the A*01:45 allele.
27	Added	Added	Primer pair added for the A*01:87N allele.
30	Added	Added	Primer pair added for the A*01:95 allele.
37	Added	Added	Primer pair added for the A*01:92 allele.
42	Added	Added	Primer pair added for the A*01:87N allele.
43	-	Added	Primer added for the A*01:45 allele.
44	Added	-	Primer added for the A*01:98 allele.
45	Added	-	Primer added for the A*01:98 allele.
46	Added	Added	Primer pair added for the A*01:81 allele.
48	Added	Added	Primer pair added for the A*01:81 allele.

Changes in revision R01 compared to R00:

1. Typing mistake in section “Uniquely identified alleles”, year of database release corrected to 2011.

Changes in revision R02 compared to R01:

1. Primer mix 9, but not primer mix 8, may give rise to non-specific amplifications. The footnotes to the Specificity Table have been corrected.

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PRODUCT DESCRIPTION

HLA-A*01 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the A*01:01 to A*01:101 alleles.

PLATE LAYOUT

Each test consists of 48 PCR reactions in a 48 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
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48

The 48 well cut PCR plate is marked with ‘HLA-A*01’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘06N’.

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 heat-sealed with a PCR-compatible foil.

Please note: When removing each 48 well PCR plate, make sure that the remaining plates stay sealed. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

The interpretation of HLA-A*01 SSP subtypings will be influenced by eight A*02 alleles, the A*03, the A*11, the A*23:07N, nine A*24, three A*26, most A*30, three A*31, the A*32:04 allele, two A*33, seven A*34, the A*36, the A*74:10 and the A*80 alleles when present on the other haplotype. In addition, the B*07:64 allele will be amplified by primer mixes 44 and 45 and the C*07:191N allele will be amplified by primer mix 32.

UNIQUELY IDENTIFIED ALLELES

All the HLA-A*01 alleles, i.e. **A*01:01 to A*01:101**, recognized by the HLA Nomenclature Committee in October 2011¹ will be amplified by the primers in the HLA-A*01 SSP kit.

The HLA-A*01 kit enables separation of the confirmed HLA-A*01 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-A*01 alleles is listed below.

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Lot No.: 06N**Lot-specific information**

The HLA- A*01 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles

The HLA-A*01 subtyping kit cannot distinguish the silent mutations in the A*01:01:01:01, 01:01:02-01:01:22, 01:01:24-01:01:31, 01:01:33-01:01:37 and 01:01:39-01:01:43 alleles. The A*01:69 and the A*03:18, 11:01:04, 11:08, 11:23, 11:44 and 11:94 alleles give rise to identical amplification patterns with the HLA-A*01 primer set. These alleles can be distinguished by the HLA-A low resolution and/or the HLA-A*03 and HLA-A*11 kits.

The A*01:47 and 01:49 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 35.

The A*01:50 and 01:62 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 38.

The A*01:53N and 01:54 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 36.

The A*01:65 and 01:92 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 37.

¹HLA-A alleles listed on the IMGT/HLA web page 2011-October-10, release 3.6.0., www.ebi.ac.uk/imgt/hla.

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Lot-specific information

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
A*01:01:01:01	Confirmed	A*01:01:40	Unconfirmed	A*01:40	Confirmed	A*01:80	Unconfirmed
A*01:01:01:02N	Unconfirmed	A*01:01:41	Unconfirmed	A*01:41	Confirmed	A*01:81	Confirmed
A*01:01:02	Unconfirmed	A*01:01:42	Confirmed	A*01:42	Unconfirmed	A*01:82	Unconfirmed
A*01:01:03	Confirmed	A*01:01:43	Unconfirmed	A*01:43	Confirmed	A*01:83	Unconfirmed
A*01:01:04	Unconfirmed	A*01:02	Confirmed	A*01:44	Confirmed	A*01:84	Unconfirmed
A*01:01:05	Unconfirmed	A*01:03	Confirmed	A*01:45	Unconfirmed	A*01:85	Unconfirmed
A*01:01:06	Confirmed	A*01:04N	Confirmed	A*01:46	Unconfirmed	A*01:86	Unconfirmed
A*01:01:07	Confirmed	A*01:06	Confirmed	A*01:47	Unconfirmed	A*01:87N	Unconfirmed
A*01:01:08	Unconfirmed	A*01:07	Unconfirmed	A*01:48	Confirmed	A*01:88	Unconfirmed
A*01:01:09	Confirmed	A*01:08	Unconfirmed	A*01:49	Confirmed	A*01:89	Unconfirmed
A*01:01:10	Confirmed	A*01:09	Unconfirmed	A*01:50	Unconfirmed	A*01:90	Unconfirmed
A*01:01:11	Confirmed	A*01:10	Unconfirmed	A*01:51	Confirmed	A*01:91	Unconfirmed
A*01:01:12	Confirmed	A*01:11N	Unconfirmed	A*01:52N	Unconfirmed	A*01:92	Confirmed
A*01:01:13	Confirmed	A*01:12	Confirmed	A*01:53N	Unconfirmed	A*01:93	Unconfirmed
A*01:01:14	Unconfirmed	A*01:13	Unconfirmed	A*01:54	Unconfirmed	A*01:94	Unconfirmed
A*01:01:15	Confirmed	A*01:14	Unconfirmed	A*01:55	Unconfirmed	A*01:95	Confirmed
A*01:01:16	Confirmed	A*01:15N	Confirmed	A*01:56N	Unconfirmed	A*01:96	Unconfirmed
A*01:01:17	Confirmed	A*01:16N	Unconfirmed	A*01:57N	Confirmed	A*01:97	Unconfirmed
A*01:01:18	Unconfirmed	A*01:17	Confirmed	A*01:58	Unconfirmed	A*01:98	Confirmed
A*01:01:19	Confirmed	A*01:18N	Unconfirmed	A*01:59	Unconfirmed	A*01:99	Unconfirmed
A*01:01:20	Unconfirmed	A*01:19	Confirmed	A*01:60	Unconfirmed	A*01:100	Unconfirmed
A*01:01:21	Unconfirmed	A*01:20	Unconfirmed	A*01:61	Confirmed	A*01:101	Unconfirmed
A*01:01:22	Confirmed	A*01:21	Confirmed	A*01:62	Unconfirmed		
A*01:01:23	Unconfirmed	A*01:22N	Unconfirmed	A*01:63	Unconfirmed		
A*01:01:24	Unconfirmed	A*01:23	Confirmed	A*01:64	Unconfirmed		
A*01:01:25	Unconfirmed	A*01:24	Unconfirmed	A*01:65	Unconfirmed		
A*01:01:26	Confirmed	A*01:25	Confirmed	A*01:66	Confirmed		
A*01:01:27	Unconfirmed	A*01:26	Confirmed	A*01:67	Unconfirmed		
A*01:01:28	Unconfirmed	A*01:27N	Unconfirmed	A*01:68	Unconfirmed		
A*01:01:29	Unconfirmed	A*01:28	Unconfirmed	A*01:69	Unconfirmed		
A*01:01:30	Unconfirmed	A*01:29	Confirmed	A*01:70	Unconfirmed		
A*01:01:31	Unconfirmed	A*01:30	Unconfirmed	A*01:71	Unconfirmed		
A*01:01:32	Unconfirmed	A*01:31N	Unconfirmed	A*01:72	Unconfirmed		
A*01:01:33	Confirmed	A*01:32	Unconfirmed	A*01:73	Unconfirmed		
A*01:01:34	Confirmed	A*01:33	Confirmed	A*01:74	Unconfirmed		
A*01:01:35	Unconfirmed	A*01:35	Confirmed	A*01:75	Unconfirmed		
A*01:01:36	Unconfirmed	A*01:36	Unconfirmed	A*01:76	Unconfirmed		
A*01:01:37	Unconfirmed	A*01:37	Unconfirmed	A*01:77	Unconfirmed		
A*01:01:38L	Confirmed	A*01:38	Confirmed	A*01:78	Unconfirmed		
A*01:01:39	Unconfirmed	A*01:39	Confirmed	A*01:79	Unconfirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2011-October-10, release 3.6.0, www.ebi.ac.uk/imgt/hla.

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Lot-specific information

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 142 alleles generate 70 amplification patterns that can be combined in 2485 homozygous and heterozygous combinations. 1252 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.

+++-----+ ----- -+----- ----- -----	*01:07, *01:20 = *01:20, *01:23
+++-----+ ----- -+----- ----- -----	*01:02, *01:07 = *01:02, *01:23
+++-----+ +----- -+----- ----- -----	*01:02, *01:08 = *01:02, *01:27N
+++----- -+----- -+----- ----- -----	*01:11N, *01:20 = *01:20, *01:28
+++----- -+----- -+----- ----- -----	*01:02, *01:11N = *01:02, *01:28
+++----- ----- -+----- ----- -----	*01:20, *01:37 = *01:20, *01:95
+++----- ----- -+----- ----- -----	*01:01:01:01, *01:20 = *01:02, *01:44 = *01:02, *01:66 = *01:20, *01:44
+++----- ----- -+----- ----- +-----	*01:02, *01:37 = *01:02, *01:95
+++----- ----- -+----- ----- +-----	*01:02, *01:38 = *01:02, *01:63
+++----- ----- -+----- ----- +-----	*01:02, *01:41 = *01:02, *01:42
+++----- ----- -+----- ----- +-----	*01:01:01:01, *01:02 = *01:01:23, *01:02
++-+----- ----- -+----- ----- -----	*01:03, *01:07 = *01:03, *01:23
++-+----- -+----- -+----- ----- -----	*01:03, *01:11N = *01:03, *01:28
++-+----- ----- -+----- ----- +-----	*01:03, *01:37 = *01:03, *01:95
++-+----- ----- -+----- ----- +-----	*01:03, *01:43 = *01:03, *01:57N
++-+----- ----- -+----- ----- +-----	*01:01:01:01, *01:03 = *01:01:32, *01:03 = *01:03, *01:69
++-+----- ----- -+----- ----- +-----	*01:04N, *01:07 = *01:04N, *01:23
++-+----- +----- -+----- ----- -----	*01:04N, *01:08 = *01:04N, *01:27N
++-+----- -+----- -+----- ----- -----	*01:04N, *01:11N = *01:04N, *01:28
++-+----- ----- -+----- ----- +-----	*01:04N, *01:44 = *01:04N, *01:66
++-+----- ----- -+----- ----- +-----	*01:04N, *01:37 = *01:04N, *01:95
++-+----- ----- -+----- ----- +-----	*01:04N, *01:38 = *01:04N, *01:63
++-+----- ----- -+----- ----- +-----	*01:04N, *01:43 = *01:04N, *01:57N
++-+----- ----- -+----- ----- +-----	*01:04N, *01:41 = *01:04N, *01:42
++-+----- ----- -+----- ----- +-----	*01:01:01:01, *01:04N = *01:01:23, *01:04N = *01:01:32, *01:04N = *01:04N, *01:04N = *01:04N, *01:69
++-+----- +----- -+----- ----- +-----	*01:07, *01:60 = *01:23, *01:60
++-+----- +----- -+----- ----- +-----	*01:07, *01:09 = *01:09, *01:23
++-+----- +----- -+----- ----- +-----	*01:08, *01:60 = *01:27N, *01:60
++-+----- +----- -+----- ----- +-----	*01:08, *01:09 = *01:09, *01:27N
++-+----- -+----- -+----- ----- +-----	*01:11N, *01:60 = *01:28, *01:60
++-+----- -+----- -+----- ----- +-----	*01:09, *01:11N = *01:09, *01:28
++-+----- -+----- -+----- ----- +-----	*01:44, *01:60 = *01:60, *01:66
++-+----- ----- -+----- ----- +-----	*01:09, *01:44 = *01:09, *01:66
++-+----- ----- -+----- ----- +-----	*01:37, *01:60 = *01:60, *01:95
++-+----- ----- -+----- ----- +-----	*01:09, *01:37 = *01:09, *01:95
++-+----- ----- -+----- ----- +-----	*01:38, *01:60 = *01:60, *01:63
++-+----- ----- -+----- ----- +-----	*01:09, *01:38 = *01:09, *01:63
++-+----- ----- -+----- ----- +-----	*01:43, *01:60 = *01:57N, *01:60
++-+----- ----- -+----- ----- +-----	*01:09, *01:43 = *01:09, *01:57N
++-+----- ----- -+----- ----- +-----	*01:41, *01:60 = *01:42, *01:60
++-+----- ----- -+----- ----- +-----	*01:01:01:01, *01:60 = *01:01:23, *01:60 = *01:01:32, *01:60 = *01:09, *01:58 = *01:09, *01:60 = *01:58, *01:60 = *01:60, *01:60 = *01:60, *01:69
++-+----- ----- -+----- ----- +-----	*01:09, *01:41 = *01:09, *01:42
++-+----- ----- -+----- ----- +-----	*01:01:01:01, *01:09 = *01:01:23, *01:09 = *01:01:32, *01:09 = *01:09, *01:09 = *01:09, *01:69
++-+----- +----- -+----- ----- -----	*01:06, *01:07 = *01:06, *01:23
++-+----- +----- -+----- ----- -----	*01:06, *01:08 = *01:06, *01:27N
++-+----- -+----- -+----- ----- -----	*01:06, *01:11N = *01:06, *01:28
++-+----- -+----- -+----- ----- -----	*01:06, *01:44 = *01:06, *01:66

101. 411-24/06 – including *Taq* polymerase, IFU-01
101. 411-24u/06u – without *Taq* polymerase, IFU-02

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++-----+	-----	-+-----	-----+	-----	-----	*01:06, *01:37 = *01:06, *01:95
++-----+	-----	-+-----	-----+	-----	-----	*01:06, *01:38 = *01:06, *01:63
++-----+	-----	-+-----	-----+	-----	-----	*01:06, *01:43 = *01:06, *01:57N
++-----+	-----	-+-----	-----+	-----	-----	*01:06, *01:41 = *01:06, *01:42
++-----+	-----	-+-----	-----+	-----	-----	*01:01:01:01, *01:06 = *01:01:23, *01:06 = *01:01:32, *01:06 = *01:06, *01:06 = *01:06, *01:69
++-----+	+-----+	-+-----	-----	-----	-----	*01:01:01:02N, *01:08 = *01:01:01:02N, *01:27N
++-----+	+-----	-+-----	+-----	-----	-----	*01:08, *01:51 = *01:27N, *01:51
++-----+	+-----	-+-----	-----	-----	-----	*01:07, *01:08 = *01:07, *01:27N = *01:08, *01:23 = *01:23, *01:27N
++-----+	-+-----	-+-----	-----	-----	-----	*01:07, *01:10 = *01:10, *01:23
++-----+	-+-----	-+-----	-----	-----	-----	*01:07, *01:29 = *01:23, *01:29
++-----+	-+-----+	-+-----	-----	-----	-----	*01:01:01:02N, *01:11N = *01:01:01:02N, *01:28
++-----+	-+-----	-+-----	+-----	-----	-----	*01:11N, *01:51 = *01:28, *01:51
++-----+	-+-----	-+-----	-----	-----	-----	*01:07, *01:11N = *01:11N, *01:23 = *01:23, *01:28
++-----+	-----+	-+-----+	-----	-----	-----	*01:07, *01:19 = *01:19, *01:23
++-----+	-----+	-+-----+	-----	-----	-----	*01:07, *01:12 = *01:12, *01:23
++-----+	-----+	-+-----	-----	-----	-----	*01:07, *01:21 = *01:21, *01:23
++-----+	-----+	-+-----	+-----	-----	-----	*01:07, *01:59 = *01:17, *01:51 = *01:23, *01:59 = *01:51, *01:59
++-----+	-----+	-+-----	-----	-----	-----	*01:07, *01:17 = *01:17, *01:23
++-----+	-----+	-+-----	-----	-----	-----	*01:07, *01:14 = *01:14, *01:23
++-----+	-----+	-+-----	-----	-----	-----	*01:01:01:02N, *01:44 = *01:01:01:02N, *01:66
++-----+	-----+	-+-----	+-----	-----	-----	*01:01:01:02N, *01:31N = *01:01:01:02N, *01:51 = *01:15N, *01:51
++-----+	-----+	-+-----	-----+	-----	-----	*01:01:01:02N, *01:37 = *01:01:01:02N, *01:95
++-----+	-----+	-+-----	-----+	-----	-----	*01:01:01:02N, *01:38 = *01:01:01:02N, *01:63
++-----+	-----+	-+-----	-----+	-----	-----	*01:01:01:02N, *01:43 = *01:01:01:02N, *01:57N
++-----+	-----+	-+-----	-----+	-----	-----	*01:01:01:02N, *01:41 = *01:01:01:02N, *01:42
++-----+	-----+	-+-----	-----	-----	-----	*01:01:01:01, *01:01:01:02N = *01:01:01:02N, *01:01:01:02N = *01:01:01:02N, *01:01:23 = *01:01:01:02N, *01:01:32 = *01:01:01:02N, *01:07 = *01:01:01:02N, *01:15N = *01:01:01:02N, *01:23 = *01:01:01:02N, *01:69 = *01:07, *01:15N = *01:15N, *01:23
++-----+	-----	++-----	-----	-----	-----	*01:07, *01:16N = *01:16N, *01:23
++-----+	-----	-++-----	-----	-----	-----	*01:07, *01:30 = *01:23, *01:30
++-----+	-----	-++-----	-----	-----	-----	*01:07, *01:18N = *01:18N, *01:23
++-----+	-----	-++-----	-----	-----	-----	*01:07, *01:26 = *01:23, *01:26
++-----+	-----	-++-----	+-----	-----	-----	*01:44, *01:51 = *01:51, *01:66
++-----+	-----	-++-----	-----	-----	-----	*01:07, *01:44 = *01:07, *01:66 = *01:23, *01:44 = *01:23, *01:66
++-----+	-----	-++-----	-----	-----	-----	*01:07, *01:22N = *01:22N, *01:23
++-----+	-----	-++-----	-----	-----	-----	*01:07, *01:24 = *01:23, *01:24
++-----+	-----	-++-----	-----	-----	-----	*01:07, *01:25 = *01:23, *01:25
++-----+	-----	-++-----	+-----	-----	-----	*01:37, *01:51 = *01:51, *01:95
++-----+	-----	-++-----	+-----	-----	-----	*01:38, *01:51 = *01:51, *01:63
++-----+	-----	-++-----	+-----	-----	-----	*01:43, *01:51 = *01:51, *01:57N
++-----+	-----	-++-----	+-----	-----	-----	*01:41, *01:51 = *01:42, *01:51
++-----+	-----	-++-----	+-----	-----	-----	*01:01:01:01, *01:51 = *01:01:23, *01:51 = *01:01:32, *01:51 = *01:07, *01:31N = *01:07, *01:51 = *01:23, *01:31N = *01:23, *01:51 = *01:31N, *01:51 = *01:51, *01:51 = *01:51, *01:69
++-----+	-----	-++-----	+-----	-----	-----	*01:07, *01:45 = *01:23, *01:45
++-----+	-----	-++-----	+-----	-----	-----	*01:07, *01:32 = *01:23, *01:32
++-----+	-----	-++-----	-----	-----	-----	*01:07, *01:87N = *01:23, *01:87N
++-----+	-----	-++-----	-----	-----	-----	*01:07, *01:33 = *01:23, *01:33
++-----+	-----	-++-----	-----	-----	-----	*01:01:38L, *01:07 = *01:01:38L, *01:23
++-----+	-----	-++-----	-----	-----	-----	*01:07, *01:35 = *01:23, *01:35
++-----+	-----	-++-----	-----	-----	-----	*01:07, *01:37 = *01:23, *01:37 = *01:23, *01:95
++-----+	-----	-++-----	-----	-----	-----	*01:07, *01:38 = *01:07, *01:63 = *01:23, *01:38 = *01:23, *01:63
++-----+	-----	-++-----	-----	-----	-----	*01:07, *01:43 = *01:07, *01:57N = *01:23, *01:43 = *01:23, *01:57N
++-----+	-----	-++-----	+-----	-----	-----	*01:07, *01:61 = *01:23, *01:61

101. 411-24/06 – including *Taq* polymerase, IFU-01
101. 411-24u/06u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 06N

Lot-specific information

++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:58 = *01:23, *01:58
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:47 = *01:23, *01:47
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:53N = *01:23, *01:53N
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:65 = *01:23, *01:65
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:50 = *01:23, *01:50
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:39 = *01:23, *01:39
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:36 = *01:23, *01:36
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:48 = *01:23, *01:48
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:64 = *01:23, *01:64
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:56N = *01:23, *01:56N
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:98 = *01:23, *01:98
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:46 = *01:23, *01:46
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:52N = *01:23, *01:52N
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:81 = *01:23, *01:81
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:40 = *01:23, *01:40
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:41 = *01:07, *01:42 = *01:23, *01:41 = *01:23, *01:42
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:55 = *01:23, *01:55
++-----+	-----	-+-----	-----	-+-----	-----	*01:01:01:01, *01:07 = *01:01:01:01, *01:23 = *01:01:23, *01:07 = *01:01:23, *01:23 = *01:01:32, *01:07 = *01:01:32, *01:23 = *01:07, *01:23 = *01:23, *01:23 = *01:23, *01:69
++-----+	-----	-+-----	-----	-+-----	-----	*01:07, *01:07 = *01:07, *01:69
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:10 = *01:10, *01:27N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:29 = *01:27N, *01:29
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:13 = *01:13, *01:27N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:11N = *01:08, *01:28 = *01:11N, *01:27N = *01:27N, *01:28
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:21 = *01:21, *01:27N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:59 = *01:27N, *01:59
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:17 = *01:17, *01:27N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:15N = *01:15N, *01:27N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:16N = *01:16N, *01:27N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:30 = *01:27N, *01:30
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:18N = *01:18N, *01:27N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:26 = *01:26, *01:27N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:44 = *01:27N, *01:44 = *01:27N, *01:66
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:22N = *01:22N, *01:27N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:24 = *01:24, *01:27N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:25 = *01:25, *01:27N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:31N = *01:27N, *01:31N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:45 = *01:27N, *01:45
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:32 = *01:27N, *01:32
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:87N = *01:27N, *01:87N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:33 = *01:27N, *01:33
++-----+	++-----	-+-----	-----	-+-----	-----	*01:01:38L, *01:08 = *01:01:38L, *01:27N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:35 = *01:27N, *01:35
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:37 = *01:08, *01:95 = *01:27N, *01:37 = *01:27N, *01:95
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:38 = *01:27N, *01:38 = *01:27N, *01:63
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:43 = *01:08, *01:57N = *01:27N, *01:43 = *01:27N, *01:57N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:61 = *01:27N, *01:61
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:58 = *01:27N, *01:58
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:47 = *01:27N, *01:47
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:53N = *01:27N, *01:53N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:65 = *01:27N, *01:65
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:50 = *01:27N, *01:50
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:39 = *01:27N, *01:39
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:36 = *01:27N, *01:36
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:48 = *01:27N, *01:48
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:64 = *01:27N, *01:64
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:56N = *01:27N, *01:56N
++-----+	++-----	-+-----	-----	-+-----	-----	*01:08, *01:98 = *01:27N, *01:98

101. 411-24/06 – including *Taq* polymerase, IFU-01
101. 411-24u/06u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 06N

Lot-specific information

++-----	+-----	-+-----	-----	-----	-----	*01:08, *01:46 = *01:27N, *01:46
++-----	+-----	-+-----	-----	-----	-----	*01:08, *01:52N = *01:27N, *01:52N
++-----	+-----	-+-----	-----	-----	-----	*01:08, *01:81 = *01:27N, *01:81
++-----	+-----	-+-----	-----	-----	-----	*01:08, *01:40 = *01:27N, *01:40
++-----	+-----	-+-----	-----	-----	-----	*01:08, *01:42 = *01:27N, *01:41 = *01:27N, *01:42
++-----	+-----	-+-----	-----	-----	-----	*01:08, *01:55 = *01:27N, *01:55
++-----	+-----	-+-----	-----	-----	-----	*01:01:01:01, *01:08 = *01:01:01:01, *01:27N = *01:01:23, *01:27N = *01:01:32, *01:08 = *01:01:32, *01:27N = *01:08, *01:27N = *01:08, *01:69 = *01:27N, *01:27N = *01:27N, *01:69
++-----	-+-----	-+-----	-----	-----	-----	*01:10, *01:11N = *01:10, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:29 = *01:28, *01:29
++-----	-+-----	-+-----	-----	-----	-----	*01:10, *01:12 = *01:10, *01:19 = *01:19, *01:29
++-----	-+-----	-+-----	-----	-----	-----	*01:10, *01:21 = *01:21, *01:29
++-----	-+-----	-+-----	-----	-----	-----	*01:10, *01:44 = *01:10, *01:66
++-----	-+-----	-+-----	-----	-----	-----	*01:10, *01:37 = *01:10, *01:95
++-----	-+-----	-+-----	-----	-----	-----	*01:10, *01:38 = *01:10, *01:63
++-----	-+-----	-+-----	-----	-----	-----	*01:10, *01:43 = *01:10, *01:57N
++-----	-+-----	-+-----	-----	-----	-----	*01:10, *01:41 = *01:10, *01:42
++-----	-+-----	-+-----	-----	-----	-----	*01:01:01:01, *01:10 = *01:01:23, *01:10 = *01:01:32, *01:10 = *01:10, *01:10 = *01:10, *01:26 = *01:10, *01:29 = *01:10, *01:69 = *01:26, *01:29
++-----	-+-----	-+-----	-----	-----	-----	*01:29, *01:44 = *01:29, *01:66
++-----	-+-----	-+-----	-----	-----	-----	*01:29, *01:37 = *01:29, *01:95
++-----	-+-----	-+-----	-----	-----	-----	*01:29, *01:38 = *01:29, *01:63
++-----	-+-----	-+-----	-----	-----	-----	*01:29, *01:43 = *01:29, *01:57N
++-----	-+-----	-+-----	-----	-----	-----	*01:29, *01:41 = *01:29, *01:42
++-----	-+-----	-+-----	-----	-----	-----	*01:01:01:01, *01:29 = *01:01:23, *01:29 = *01:01:32, *01:29 = *01:29, *01:29 = *01:29, *01:69
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:19 = *01:19, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:12 = *01:12, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:21 = *01:21, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:13, *01:44 = *01:13, *01:66
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:59 = *01:13, *01:31N = *01:13, *01:59 = *01:28, *01:59
++-----	-+-----	-+-----	-----	-----	-----	*01:13, *01:38 = *01:13, *01:63
++-----	-+-----	-+-----	-----	-----	-----	*01:13, *01:43 = *01:13, *01:57N
++-----	-+-----	-+-----	-----	-----	-----	*01:13, *01:41 = *01:13, *01:42
++-----	-+-----	-+-----	-----	-----	-----	*01:01:01:01, *01:13 = *01:01:23, *01:13 = *01:01:32, *01:13 = *01:11N, *01:13 = *01:11N, *01:17 = *01:13, *01:17 = *01:17, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:13, *01:13 = *01:13, *01:28 = *01:13, *01:69
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:14 = *01:14, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:15N = *01:15N, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:16N = *01:16N, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:30 = *01:28, *01:30
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:18N = *01:18N, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:26 = *01:26, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:44 = *01:11N, *01:66 = *01:28, *01:44 = *01:28, *01:66
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:22N = *01:22N, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:24 = *01:24, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:25 = *01:25, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:31N = *01:28, *01:31N
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:45 = *01:28, *01:45
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:32 = *01:28, *01:32
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:87N = *01:28, *01:87N
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:33 = *01:28, *01:33
++-----	-+-----	-+-----	-----	-----	-----	*01:01:38L, *01:11N = *01:01:38L, *01:28
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:35 = *01:28, *01:35
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:37 = *01:11N, *01:95 = *01:28, *01:37
++-----	-+-----	-+-----	-----	-----	-----	*01:11N, *01:38 = *01:11N, *01:63 = *01:28, *01:38 = *01:28, *01:63

101. 411-24/06 – including *Taq* polymerase, IFU-01
101. 411-24u/06u – without *Taq* polymerase, IFU-02

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Lot No.: 06N

Lot-specific information

++-----	---+-----	-+-----	-----++	-----	-----	*01:11N, *01:43 = *01:11N, *01:57N = *01:28, *01:43 = *01:28, *01:57N
++-----	---+-----	-+-----	-----	+-----	-----	*01:11N, *01:61 = *01:28, *01:61
++-----	---+-----	-+-----	-----	---+-----	-----	*01:11N, *01:58 = *01:28, *01:58
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:47 = *01:28, *01:47
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:53N = *01:28, *01:53N
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:65 = *01:28, *01:65
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:50 = *01:28, *01:50
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:39 = *01:28, *01:39
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:36 = *01:28, *01:36
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:48 = *01:28, *01:48
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:64 = *01:28, *01:64
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:56N = *01:28, *01:56N
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:98 = *01:28, *01:98
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:46 = *01:28, *01:46
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:52N = *01:28, *01:52N
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:81 = *01:28, *01:81
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:40 = *01:28, *01:40
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:41 = *01:11N, *01:42 = *01:28, *01:41 = *01:28, *01:42
++-----	---+-----	-+-----	-----	-----	-----	*01:11N, *01:55 = *01:28, *01:55
++-----	---+-----	-+-----	-----	-----	-----	*01:01:01:01, *01:11N = *01:01:01:01, *01:28 = *01:01:23, *01:11N = *01:01:23, *01:28 = *01:01:32, *01:11N = *01:01:32, *01:28 = *01:11N, *01:11N = *01:11N, *01:28 = *01:11N, *01:69
++-----	---+-----	-+-----	-----	-----	-----	*01:28, *01:28 = *01:28, *01:69
++-----	---+-----	-+-----	-----	-----	-----	*01:19, *01:37 = *01:19, *01:95
++-----	---+-----	-+-----	-----	-----	-----	*01:19, *01:43 = *01:19, *01:57N
++-----	---+-----	-+-----	-----	-----	-----	*01:01:01:01, *01:19 = *01:01:32, *01:19 = *01:12, *01:21 = *01:12, *01:26 = *01:19, *01:21 = *01:19, *01:25 = *01:19, *01:26 = *01:19, *01:69
++-----	---+-----	-+-----	-----	-----	-----	*01:12, *01:37 = *01:12, *01:95
++-----	---+-----	-+-----	-----	-----	-----	*01:12, *01:43 = *01:12, *01:57N
++-----	---+-----	-+-----	-----	-----	-----	*01:01:01:01, *01:12 = *01:01:32, *01:12 = *01:12, *01:25 = *01:12, *01:69
++-----	---+-----	-+-----	-----	-----	-----	*01:21, *01:44 = *01:21, *01:66
++-----	---+-----	-+-----	-----	-----	-----	*01:21, *01:37 = *01:21, *01:95
++-----	---+-----	-+-----	-----	-----	-----	*01:21, *01:38 = *01:21, *01:63
++-----	---+-----	-+-----	-----	-----	-----	*01:21, *01:43 = *01:21, *01:57N
++-----	---+-----	-+-----	-----	-----	-----	*01:21, *01:41 = *01:21, *01:42
++-----	---+-----	-+-----	-----	-----	-----	*01:01:01:01, *01:21 = *01:01:23, *01:21 = *01:01:32, *01:21 = *01:21, *01:21 = *01:21, *01:26 = *01:21, *01:69
++-----	---+-----	-+-----	-----	-----	-----	*01:44, *01:59 = *01:59, *01:66
++-----	---+-----	-+-----	-----	-----	-----	*01:17, *01:44 = *01:17, *01:66
++-----	---+-----	-+-----	-----	-----	-----	*01:37, *01:59 = *01:59, *01:95
++-----	---+-----	-+-----	-----	-----	-----	*01:38, *01:59 = *01:59, *01:63
++-----	---+-----	-+-----	-----	-----	-----	*01:43, *01:59 = *01:57N, *01:59
++-----	---+-----	-+-----	-----	-----	-----	*01:41, *01:59 = *01:42, *01:59
++-----	---+-----	-+-----	-----	-----	-----	*01:01:01:01, *01:59 = *01:01:23, *01:59 = *01:01:32, *01:59 = *01:17, *01:31N = *01:17, *01:59 = *01:31N, *01:59 = *01:59, *01:59 = *01:59, *01:69
++-----	---+-----	-+-----	-----	-----	-----	*01:17, *01:37 = *01:17, *01:95
++-----	---+-----	-+-----	-----	-----	-----	*01:17, *01:38 = *01:17, *01:63
++-----	---+-----	-+-----	-----	-----	-----	*01:17, *01:43 = *01:17, *01:57N
++-----	---+-----	-+-----	-----	-----	-----	*01:17, *01:41 = *01:17, *01:42
++-----	---+-----	-+-----	-----	-----	-----	*01:01:01:01, *01:17 = *01:01:23, *01:17 = *01:01:32, *01:17 = *01:17, *01:17 = *01:17, *01:69
++-----	---+-----	-+-----	-----	-----	-----	*01:14, *01:37 = *01:14, *01:95
++-----	---+-----	-+-----	-----	-----	-----	*01:14, *01:43 = *01:14, *01:57N
++-----	---+-----	-+-----	-----	-----	-----	*01:01:01:01, *01:14 = *01:01:32, *01:14 = *01:14, *01:69
++-----	---+-----	-+-----	-----	-----	-----	*01:15N, *01:44 = *01:15N, *01:66
++-----	---+-----	-+-----	-----	-----	-----	*01:15N, *01:37 = *01:15N, *01:95
++-----	---+-----	-+-----	-----	-----	-----	*01:15N, *01:38 = *01:15N, *01:63

101. 411-24/06 – including *Taq* polymerase, IFU-01
101. 411-24u/06u – without *Taq* polymerase, IFU-02

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Lot No.: 06N

Lot-specific information

++-----	-----+	+-----	-----+	-----	*01:15N, *01:43 = *01:15N, *01:57N
++-----	-----+	+-----	-----	-----+	*01:15N, *01:41 = *01:15N, *01:42
++-----	-----+	+-----	-----	-----	*01:01:01:01, *01:15N = *01:01:23, *01:15N = *01:01:32, *01:15N = *01:15N, *01:15N = *01:15N, *01:69
++-----	-----	++-----	-----	-----	*01:16N, *01:44 = *01:16N, *01:66
++-----	-----	++-----	-----+	-----	*01:16N, *01:37 = *01:16N, *01:95
++-----	-----	++-----	-----+	-----	*01:16N, *01:38 = *01:16N, *01:63
++-----	-----	++-----	-----+	-----	*01:16N, *01:43 = *01:16N, *01:57N
++-----	-----	++-----	-----	-----+	*01:16N, *01:41 = *01:16N, *01:42
++-----	-----	++-----	-----	-----	*01:01:01:01, *01:16N = *01:01:23, *01:16N = *01:01:32, *01:16N = *01:16N, *01:16N = *01:16N, *01:69
++-----	-----	-++-----	-----	-----	*01:30, *01:44 = *01:30, *01:66
++-----	-----	-++-----	-----	-----	*01:18N, *01:44 = *01:18N, *01:66
++-----	-----	-++-----	-----+	-----	*01:30, *01:37 = *01:30, *01:95
++-----	-----	-++-----	-----+	-----	*01:30, *01:38 = *01:30, *01:63
++-----	-----	-++-----	-----+	-----	*01:30, *01:43 = *01:30, *01:57N
++-----	-----	-++-----	-----	-----+	*01:30, *01:41 = *01:30, *01:42
++-----	-----	-++-----	-----	-----	*01:01:01:01, *01:30 = *01:01:23, *01:30 = *01:01:32, *01:30 = *01:18N, *01:24 = *01:18N, *01:30 = *01:24, *01:30 = *01:30, *01:30 = *01:30, *01:69
++-----	-----	-++-----	-----+	-----	*01:18N, *01:37 = *01:18N, *01:95
++-----	-----	-++-----	-----+	-----	*01:18N, *01:38 = *01:18N, *01:63
++-----	-----	-++-----	-----+	-----	*01:18N, *01:43 = *01:18N, *01:57N
++-----	-----	-++-----	-----	-----+	*01:18N, *01:41 = *01:18N, *01:42
++-----	-----	-++-----	-----	-----	*01:01:01:01, *01:18N = *01:01:23, *01:18N = *01:01:32, *01:18N = *01:18N, *01:18N = *01:18N, *01:69
++-----	-----	-++-----	-----	-----	*01:26, *01:44 = *01:26, *01:66
++-----	-----	-++-----	-----+	-----	*01:26, *01:37 = *01:26, *01:95
++-----	-----	-++-----	-----+	-----	*01:26, *01:38 = *01:26, *01:63
++-----	-----	-++-----	-----+	-----	*01:26, *01:43 = *01:26, *01:57N
++-----	-----	-++-----	-----	-----+	*01:26, *01:41 = *01:26, *01:42
++-----	-----	-++-----	-----	-----	*01:01:01:01, *01:26 = *01:01:23, *01:26 = *01:01:32, *01:26 = *01:26, *01:26 = *01:26, *01:69
++-----	-----	-++-----	-----	-----	*01:22N, *01:44 = *01:22N, *01:66
++-----	-----	-++-----	-----	-----	*01:24, *01:44 = *01:24, *01:66
++-----	-----	-++-----	-----	-----	*01:25, *01:44 = *01:25, *01:66
++-----	-----	-++-----	-----	-----	*01:31N, *01:44 = *01:31N, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:45 = *01:45, *01:66
++-----	-----	-++-----	-----	-----	*01:32, *01:44 = *01:32, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:87N = *01:66, *01:87N
++-----	-----	-++-----	-----	-----	*01:33, *01:44 = *01:33, *01:66
++-----	-----	-++-----	-----	-----	*01:01:38L, *01:44 = *01:01:38L, *01:66
++-----	-----	-++-----	-----	-----	*01:35, *01:44 = *01:35, *01:66
++-----	-----	-++-----	-----	-----	*01:37, *01:44 = *01:37, *01:66 = *01:44, *01:95 = *01:66, *01:95
++-----	-----	-++-----	-----	-----	*01:38, *01:44 = *01:38, *01:66 = *01:44, *01:63
++-----	-----	-++-----	-----	-----	*01:43, *01:44 = *01:43, *01:66 = *01:44, *01:57N = *01:57N, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:61 = *01:61, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:58 = *01:58, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:47 = *01:47, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:53N = *01:53N, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:65 = *01:65, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:50 = *01:50, *01:66
++-----	-----	-++-----	-----	-----	*01:39, *01:44 = *01:39, *01:66
++-----	-----	-++-----	-----	-----	*01:36, *01:44 = *01:36, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:48 = *01:48, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:64 = *01:64, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:56N = *01:56N, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:98 = *01:66, *01:98
++-----	-----	-++-----	-----	-----	*01:44, *01:46 = *01:46, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:52N = *01:52N, *01:66
++-----	-----	-++-----	-----	-----	*01:44, *01:81 = *01:66, *01:81

101. 411-24/06 – including *Taq* polymerase, IFU-01
101. 411-24u/06u – without *Taq* polymerase, IFU-02

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

Lot No.: 06N

Lot-specific information

++-----	-----	-+-----	-----	-----	-----+--	*01:40, *01:44 = *01:40, *01:66
++-----	-----	-+-----	-----	-----	-----+--	*01:41, *01:44 = *01:42, *01:44 = *01:42, *01:66
++-----	-----	-+-----	-----	-----	-----+--	*01:44, *01:55 = *01:55, *01:66
++-----	-----	-+-----	-----	-----	-----+--	*01:01:01:01, *01:44 = *01:01:01:01, *01:66 = *01:01:23, *01:44 = *01:01:32, *01:44 = *01:01:32, *01:66 = *01:44, *01:44 = *01:44, *01:66 = *01:44, *01:69 = *01:66, *01:69
++-----	-----	-+-----	-----	-----	-----+--	*01:22N, *01:37 = *01:22N, *01:95
++-----	-----	-+-----	-----	-----	-----+--	*01:22N, *01:38 = *01:22N, *01:63
++-----	-----	-+-----	-----	-----	-----+--	*01:22N, *01:43 = *01:22N, *01:57N
++-----	-----	-+-----	-----	-----	-----+--	*01:22N, *01:41 = *01:22N, *01:42
++-----	-----	-+-----	-----	-----	-----+--	*01:01:01:01, *01:22N = *01:01:23, *01:22N = *01:01:32, *01:22N = *01:22N, *01:22N = *01:22N, *01:69
++-----	-----	-+-----	-----	-----	-----+--	*01:24, *01:37 = *01:24, *01:95
++-----	-----	-+-----	-----	-----	-----+--	*01:24, *01:38 = *01:24, *01:63
++-----	-----	-+-----	-----	-----	-----+--	*01:24, *01:43 = *01:24, *01:57N
++-----	-----	-+-----	-----	-----	-----+--	*01:24, *01:41 = *01:24, *01:42
++-----	-----	-+-----	-----	-----	-----+--	*01:01:01:01, *01:24 = *01:01:23, *01:24 = *01:01:32, *01:24 = *01:24, *01:24 = *01:24, *01:69
++-----	-----	-+-----	-----	-----	-----+--	*01:25, *01:37 = *01:25, *01:95
++-----	-----	-+-----	-----	-----	-----+--	*01:25, *01:38 = *01:25, *01:63
++-----	-----	-+-----	-----	-----	-----+--	*01:25, *01:43 = *01:25, *01:57N
++-----	-----	-+-----	-----	-----	-----+--	*01:25, *01:41 = *01:25, *01:42
++-----	-----	-+-----	-----	-----	-----+--	*01:01:01:01, *01:25 = *01:01:23, *01:25 = *01:01:32, *01:25 = *01:25, *01:25 = *01:25, *01:69
++-----	-----	-+-----	-----	-----	-----+--	*01:31N, *01:37 = *01:31N, *01:95
++-----	-----	-+-----	-----	-----	-----+--	*01:31N, *01:38 = *01:31N, *01:63
++-----	-----	-+-----	-----	-----	-----+--	*01:31N, *01:43 = *01:31N, *01:57N
++-----	-----	-+-----	-----	-----	-----+--	*01:31N, *01:41 = *01:31N, *01:42
++-----	-----	-+-----	-----	-----	-----+--	*01:01:01:01, *01:31N = *01:01:23, *01:31N = *01:01:32, *01:31N = *01:31N, *01:31N = *01:31N, *01:69
++-----	-----	-+-----	-----	-----	-----+--	*01:37, *01:45 = *01:45, *01:95
++-----	-----	-+-----	-----	-----	-----+--	*01:32, *01:37 = *01:32, *01:95
++-----	-----	-+-----	-----	-----	-----+--	*01:38, *01:45 = *01:45, *01:63
++-----	-----	-+-----	-----	-----	-----+--	*01:32, *01:38 = *01:32, *01:63
++-----	-----	-+-----	-----	-----	-----+--	*01:43, *01:45 = *01:45, *01:57N
++-----	-----	-+-----	-----	-----	-----+--	*01:32, *01:43 = *01:32, *01:57N
++-----	-----	-+-----	-----	-----	-----+--	*01:41, *01:45 = *01:42, *01:45
++-----	-----	-+-----	-----	-----	-----+--	*01:01:01:01, *01:45 = *01:01:23, *01:45 = *01:01:32, *01:45 = *01:32, *01:45 = *01:32, *01:56N = *01:45, *01:45 = *01:45, *01:56N = *01:45, *01:69
++-----	-----	-+-----	-----	-----	-----+--	*01:32, *01:41 = *01:32, *01:42
++-----	-----	-+-----	-----	-----	-----+--	*01:01:01:01, *01:32 = *01:01:23, *01:32 = *01:01:32, *01:32 = *01:32, *01:32 = *01:32, *01:69
++-----	-----	-+-----	-----	-----	-----+--	*01:37, *01:87N = *01:87N, *01:95
++-----	-----	-+-----	-----	-----	-----+--	*01:33, *01:37 = *01:33, *01:95
++-----	-----	-+-----	-----	-----	-----+--	*01:38, *01:87N = *01:63, *01:87N
++-----	-----	-+-----	-----	-----	-----+--	*01:33, *01:38 = *01:33, *01:63
++-----	-----	-+-----	-----	-----	-----+--	*01:43, *01:87N = *01:57N, *01:87N
++-----	-----	-+-----	-----	-----	-----+--	*01:33, *01:43 = *01:33, *01:57N
++-----	-----	-+-----	-----	-----	-----+--	*01:41, *01:87N = *01:42, *01:87N
++-----	-----	-+-----	-----	-----	-----+--	*01:01:01:01, *01:87N = *01:01:23, *01:87N = *01:01:32, *01:87N = *01:33, *01:64 = *01:33, *01:87N = *01:64, *01:87N = *01:69, *01:87N = *01:87N, *01:87N
++-----	-----	-+-----	-----	-----	-----+--	*01:33, *01:41 = *01:33, *01:42
++-----	-----	-+-----	-----	-----	-----+--	*01:01:01:01, *01:33 = *01:01:23, *01:33 = *01:01:32, *01:33 = *01:33, *01:33 = *01:33, *01:69
++-----	-----	-+-----	-----	-----	-----+--	*01:01:38L, *01:37 = *01:01:38L, *01:95
++-----	-----	-+-----	-----	-----	-----+--	*01:01:38L, *01:38 = *01:01:38L, *01:63
++-----	-----	-+-----	-----	-----	-----+--	*01:01:38L, *01:43 = *01:01:38L, *01:57N
++-----	-----	-+-----	-----	-----	-----+--	*01:01:38L, *01:41 = *01:01:38L, *01:42
++-----	-----	-+-----	-----	-----	-----+--	*01:01:01:01, *01:01:38L = *01:01:23, *01:01:38L = *01:01:32, *01:01:38L = *01:01:38L, *01:01:38L = *01:01:38L, *01:69
++-----	-----	-+-----	-----	-----	-----+--	*01:35, *01:37 = *01:35, *01:95

101. 411-24/06 – including *Taq* polymerase, IFU-01
101. 411-24u/06u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 06N

Lot-specific information

++-----	-----	-+-----	-----++	-----	-----	*01:35, *01:38 = *01:35, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:35, *01:43 = *01:35, *01:57N
++-----	-----	-+-----	-----++	-----	-----	*01:35, *01:41 = *01:35, *01:42
++-----	-----	-+-----	-----++	-----	-----	*01:01:01:01, *01:35 = *01:01:23, *01:35 = *01:01:32, *01:35 = *01:35, *01:35 = *01:35, *01:69
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:38 = *01:37, *01:63 = *01:38, *01:95 = *01:63, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:43 = *01:37, *01:57N = *01:43, *01:95 = *01:57N, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:61 = *01:61, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:58 = *01:58, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:47 = *01:47, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:53N = *01:53N, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:65 = *01:65, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:50 = *01:50, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:39 = *01:39, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:39 = *01:39, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:36, *01:37 = *01:36, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:48 = *01:48, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:64 = *01:64, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:56N = *01:56N, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:98 = *01:95, *01:98
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:46 = *01:46, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:52N = *01:52N, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:81 = *01:81, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:40 = *01:40, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:41 = *01:37, *01:42 = *01:41, *01:95 = *01:42, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:37, *01:55 = *01:55, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:01:01:01, *01:37 = *01:01:01:01, *01:95 = *01:01:23, *01:37 = *01:01:23, *01:95 = *01:01:32, *01:37 = *01:01:32, *01:95 = *01:37, *01:37 = *01:37, *01:69 = *01:37, *01:95
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:43 = *01:38, *01:57N = *01:43, *01:63 = *01:57N, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:61 = *01:61, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:58 = *01:58, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:47 = *01:47, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:53N = *01:53N, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:65 = *01:63, *01:65
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:50 = *01:50, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:39 = *01:39, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:36, *01:38 = *01:36, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:48 = *01:48, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:64 = *01:63, *01:64
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:56N = *01:56N, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:98 = *01:63, *01:98
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:46 = *01:46, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:52N = *01:52N, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:81 = *01:63, *01:81
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:40 = *01:40, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:41 = *01:38, *01:42 = *01:42, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:38, *01:55 = *01:55, *01:63
++-----	-----	-+-----	-----++	-----	-----	*01:01:01:01, *01:38 = *01:01:01:01, *01:63 = *01:01:23, *01:38 = *01:01:32, *01:38 = *01:01:32, *01:63 = *01:38, *01:38 = *01:38, *01:63 = *01:38, *01:69 = *01:63, *01:69
++-----	-----	-+-----	-----++	-----	-----	*01:43, *01:61 = *01:57N, *01:61
++-----	-----	-+-----	-----++	-----	-----	*01:43, *01:58 = *01:57N, *01:58
++-----	-----	-+-----	-----++	-----	-----	*01:43, *01:47 = *01:47, *01:57N
++-----	-----	-+-----	-----++	-----	-----	*01:43, *01:53N = *01:53N, *01:57N
++-----	-----	-+-----	-----++	-----	-----	*01:43, *01:65 = *01:57N, *01:65
++-----	-----	-+-----	-----++	-----	-----	*01:43, *01:50 = *01:50, *01:57N
++-----	-----	-+-----	-----++	-----	-----	*01:39, *01:43 = *01:39, *01:57N
++-----	-----	-+-----	-----++	-----	-----	*01:36, *01:43 = *01:36, *01:57N
++-----	-----	-+-----	-----++	-----	-----	*01:43, *01:48 = *01:48, *01:57N

101. 411-24/06 – including *Taq* polymerase, IFU-01
101. 411-24u/06u – without *Taq* polymerase, IFU-02

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Lot No.: **06N**

Lot-specific information

++-----	-----	-+-----	-----+	-----	-+-----	*01:43, *01:64 = *01:57N, *01:64
++-----	-----	-+-----	-----+	-----	-+-----	*01:43, *01:56N = *01:56N, *01:57N
++-----	-----	-+-----	-----+	-----	-+-----	*01:43, *01:98 = *01:57N, *01:98
++-----	-----	-+-----	-----+	-----	-+-----	*01:43, *01:46 = *01:46, *01:57N
++-----	-----	-+-----	-----+	-----	-+-----	*01:43, *01:52N = *01:52N, *01:57N
++-----	-----	-+-----	-----+	-----	-+-----	*01:43, *01:81 = *01:57N, *01:81
++-----	-----	-+-----	-----+	-----	-+-----	*01:40, *01:43 = *01:40, *01:57N
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:43 = *01:41, *01:57N = *01:42, *01:43 = *01:42, *01:57N
++-----	-----	-+-----	-----+	-----	-+-----	*01:43, *01:55 = *01:55, *01:57N
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:43 = *01:01:01:01, *01:57N = *01:01:23, *01:43 = *01:01:23, *01:57N = *01:01:32, *01:57N = *01:43, *01:57N = *01:57N, *01:57N = *01:57N, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:61 = *01:42, *01:61
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:61 = *01:01:23, *01:61 = *01:01:32, *01:61 = *01:61, *01:61 = *01:61, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:58 = *01:42, *01:58
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:58 = *01:01:23, *01:58 = *01:01:32, *01:58 = *01:58, *01:58 = *01:58, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:47 = *01:42, *01:47
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:47 = *01:01:23, *01:47 = *01:01:32, *01:47 = *01:47, *01:47 = *01:47, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:53N = *01:42, *01:53N
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:53N = *01:01:23, *01:53N = *01:01:32, *01:53N = *01:53N, *01:53N = *01:53N, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:65 = *01:42, *01:65
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:65 = *01:01:23, *01:65 = *01:01:32, *01:65 = *01:65, *01:65 = *01:65, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:50 = *01:42, *01:50
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:50 = *01:01:23, *01:50 = *01:01:32, *01:50 = *01:50, *01:50 = *01:50, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:39, *01:41 = *01:39, *01:42
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:39 = *01:01:23, *01:39 = *01:01:32, *01:39 = *01:39, *01:39 = *01:39, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:36, *01:41 = *01:36, *01:42
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:36 = *01:01:23, *01:36 = *01:01:32, *01:36 = *01:36, *01:36 = *01:36, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:48 = *01:42, *01:48
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:48 = *01:01:23, *01:48 = *01:01:32, *01:48 = *01:48, *01:48 = *01:48, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:64 = *01:42, *01:64
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:64 = *01:01:23, *01:64 = *01:01:32, *01:64 = *01:64, *01:64 = *01:64, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:56N = *01:42, *01:56N
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:56N = *01:01:23, *01:56N = *01:01:32, *01:56N = *01:56N, *01:56N = *01:56N, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:98 = *01:42, *01:98
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:98 = *01:01:23, *01:98 = *01:01:32, *01:98 = *01:46, *01:52N = *01:46, *01:98 = *01:52N, *01:98 = *01:69, *01:98 = *01:98, *01:98
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:46 = *01:42, *01:46
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:46 = *01:01:23, *01:46 = *01:01:32, *01:46 = *01:46, *01:46 = *01:46, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:52N = *01:42, *01:52N
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:52N = *01:01:23, *01:52N = *01:01:32, *01:52N = *01:52N, *01:52N = *01:52N, *01:69
++-----	-----	-+-----	-----+	-----	-+-----	*01:41, *01:81 = *01:42, *01:81
++-----	-----	-+-----	-----+	-----	-+-----	*01:40, *01:41 = *01:40, *01:42
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:81 = *01:01:23, *01:81 = *01:01:32, *01:81 = *01:40, *01:55 = *01:40, *01:81 = *01:55, *01:81 = *01:69, *01:81 = *01:81, *01:81
++-----	-----	-+-----	-----+	-----	-+-----	*01:01:01:01, *01:40 = *01:01:23, *01:40 = *01:01:32, *01:40 = *01:40, *01:40 = *01:40, *01:69

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **06N**

Lot-specific information

++-----	-----	-+-----	-----	-----	-----	++	*01:41, *01:55 = *01:42, *01:55
++-----	-----	-+-----	-----	-----	-----	++	*01:01:01:01, *01:41 = *01:01:01:01, *01:42 = *01:01:23, *01:42 = *01:01:32, *01:41 = *01:01:32, *01:42 = *01:41, *01:42 = *01:41, *01:69 = *01:42, *01:42 = *01:42, *01:69
++-----	-----	-+-----	-----	-----	-----	++	*01:01:01:01, *01:55 = *01:01:23, *01:55 = *01:01:32, *01:55 = *01:55, *01:55 = *01:55, *01:69
++-----	-----	-+-----	-----	-----	-----	++	*01:01:01:01, *01:01:01:01 = *01:01:01:01, *01:01:23 = *01:01:01:01, *01:01:32 = *01:01:01:01, *01:69 = *01:01:23, *01:01:32 = *01:01:23, *01:69
++-----	-----	-+-----	-----	-----	-----	++	*01:69, *01:95 = *01:95, *01:95
++-----	-----	-+-----	-----	-----	-----	++	*01:01:32, *01:20 = *01:02, *01:20 = *01:20, *01:69
++-----	-----	-+-----	-----	-----	-----	++	*01:01:32, *01:02 = *01:02, *01:02 = *01:02, *01:69
++-----	-----	-+-----	-----	-----	-----	++	*01:01:32, *01:43 = *01:43, *01:43 = *01:43, *01:69
++-----	-----	-+-----	-----	-----	-----	++	*01:01:32, *01:01:32 = *01:01:32, *01:69
++-----	-----	-+-----	-----	-----	-----	++	*01:01:23, *01:20 = *01:20, *01:66
++-----	-----	-+-----	-----	-----	-----	++	*01:01:23, *01:03 = *01:03, *01:03
++-----	-----	-+-----	-----	-----	-----	++	*01:01:23, *01:08 = *01:08, *01:08
++-----	-----	-+-----	-----	-----	-----	++	*01:01:23, *01:19 = *01:12, *01:19 = *01:14, *01:19 = *01:19, *01:19
++-----	-----	-+-----	-----	-----	-----	++	*01:01:23, *01:12 = *01:12, *01:12 = *01:12, *01:14
++-----	-----	-+-----	-----	-----	-----	++	*01:01:23, *01:14 = *01:14, *01:14
++-----	-----	-+-----	-----	-----	-----	++	*01:01:23, *01:66 = *01:66, *01:66
++-----	-----	-+-----	-----	-----	-----	++	*01:01:23, *01:63 = *01:63, *01:63
++-----	-----	-+-----	-----	-----	-----	++	*01:01:23, *01:41 = *01:41, *01:41

*01:01:01:01 = *01:01:01:01, 01:01:02-01:01:22, 01:01:24-01:01:31, 01:01:33-01:01:37 and
 01:01:39-01:01:43 and the 01:67-01:68, 01:70-01:72, 01:74-01:79, 01:82, 01:84-01:86, 01:88,
 01:90-01:91, 01:93-01:94, 01:96-01:97 and 01:99-01:101
 *01:01:23 = *01:01:23, 01:73 and 01:89
 *01:01:32 = *01:01:32 and 01:80
 *01:23 = *01:23 and 01:83
 *01:47 = *01:47 and 01:49
 *01:50 = *01:50 and 01:62
 *01:53N = *01:53N and 01:54
 *01:65 = *01:65, 01:92

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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Lot No.: **06N**

Lot-specific information
SPECIFICITY TABLE

HLA-A*01 SSP subtyping

Specificities and sizes of the PCR products of the 48 primer mixes used for
 HLA-A*01 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-A*01 alleles	Other amplified HLA-A alleles ³
1	235 bp	800 bp	*01:01:01:01-01:01:22, 01:01:24-01:02, 01:04N, 01:06-01:07, 01:09-01:11N, 01:13, 01:15N-01:18N, 01:21-01:33, 01:35-01:40, 01:42-01:62, 01:64-01:65, 01:67-01:72, 01:74-01:88, 01:90-01:101	*03:18, 11:01:01-11:01:20, 11:01:22-11:03, 11:05-11:25, 11:29-11:34, 11:36-11:47, 11:49, 11:51-11:89, 11:91-11:100, 11:102-11:109N, 36:04
2	145 bp	1070 bp	*01:01:01:01-01:01:31, 01:01:33-01:01:43, 01:03-01:04N, 01:06-01:17, 01:18N ^w , 01:19, 01:21-01:23, 01:24 ^w , 01:25-01:33, 01:35-01:42, 01:44-01:68, 01:70-01:79, 01:81-01:101	*36:01-36:05
3⁴	120 bp	800 bp	*01:02, 01:20	
4	305 bp	1070 bp	*01:03	*11:26, 26:32, 26:70, 33:13, 36:03, 74:10
5	470 bp	1070 bp	*01:04N	*03:21N, 11:21N, 23:07N, 24:11N
6^{4,7}	125 bp, 210 bp	1070 bp	*01:09, 01:60	*26:31
7	215 bp	800 bp	*01:06	*02:156, 03:01:30, 03:05, 03:42, 03:98, 03:105, 03:122, 11:24:01-11:25, 11:31, 11:35, 30:01:01-30:03, 30:07-30:16, 30:18-30:20, 30:22-30:27N, 30:30-30:45, 30:48-30:51, 30:53-30:55, 31:03-31:04, 33:49, 34:02:01-34:04, 34:07-34:09, 80:01-80:02
8^{4,8}	110 bp, 180 bp	1070 bp	*01:01:01:02N, 01:07, 01:23, 01:51, 01:83	*31:35

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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Lot No.: **06N**

Lot-specific information

9⁵	235 bp	1070 bp	*01:08, 01:27N	
10⁹	155 bp, 270 bp	800 bp	*01:10, 01:29	*11:14 ^w , 11:50Q, 30:26, 80:01 ^w -80:02 ^w
11¹⁰	135 bp, 275 bp	800 bp	*01:11N, 01:13, 01:28	*31:35
12^{4,6}	85 bp	800 bp		*36:01-36:05
13	205 bp	1070 bp	*01:12, 01:19, 01:21	*02:156 ^w , 03:02:01- 03:02:02, 03:07 ^w , 03:10, 03:31-03:32, 03:42 ^w , 03:73, 03:76, 03:82, 03:90, 03:106, 03:113, 03:133, 11:31 ^w , 11:35 ^w , 11:60, 24:92, 30:04:01 ^w - 30:04:02 ^w , 30:06 ^w , 30:09, 30:17 ^w , 30:29 ^w , 30:46 ^w , 31:03 ^w -31:04 ^w , 33:49 ^w
14^{4,11}	75 bp, 120 bp	1070 bp	*01:13, 01:17, 01:59	
15	235 bp	1070 bp	*01:12, 01:14, 01:19	*02:156, 03:01:01:01- 03:01:05, 03:01:07- 03:01:29, 03:01:31-03:17, 03:19-03:39, 03:41- 03:74, 03:76-03:94, 03:96-03:97, 03:99- 03:104, 03:106-03:133, 11:04, 11:27, 11:35, 24:92, 30:01:01-30:04:02, 30:06-30:13, 30:15- 30:20, 30:22-30:27N, 30:29-30:42, 30:44- 30:46, 30:48-30:51, 30:53-30:55, 31:03- 31:04, 32:04, 33:49, 34:02:01-34:04, 34:07- 34:09, 36:01-36:02, 36:05
16¹²	180 bp, 235 bp	1070 bp	*01:01:01:02N, 01:15N	
17	210 bp	1070 bp	*01:16N	
18	135 bp	1070 bp	*01:01:01:01-01:04N, 01:06, 01:08-01:12, 01:14- 01:27N, 01:29-01:33, 01:35-01:68, 01:70-01:94, 01:96-01:101	*36:01-36:05
19⁵	170 bp	1070 bp	*01:18N, 01:30	*02:262, 24:22, 24:160

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **06N**

Lot-specific information

20 ^{4,13}	65 bp, 425 bp	800 bp	*01:10, 01:19, 01:21, 01:26	
21 ^{4,14}	125 bp, 255 bp	1070 bp	*01:20, 01:44, 01:66	*02:19, 02:36-02:37, 02:54, 02:255, 24:14, 24:93
22	590 bp	1070 bp	*01:22N	
23 ⁵	165 bp	1070 bp	*01:24, 01:30	*02:262, 24:22, 24:160
24	215 bp	1070 bp	*01:12, 01:19, 01:25	*03:02:01-03:02:02, 03:10, 03:31-03:32, 03:65, 03:69N, 03:73, 03:76, 03:82, 03:90, 03:106, 03:113, 11:01:01- 11:01:03, 11:01:05-11:07, 11:09-11:22, 11:27, 11:29-11:30, 11:32- 11:34, 11:36-11:43, 11:45-11:47, 11:49, 11:51-11:93, 11:95- 11:100, 11:102-11:109N, 24:92
25 ⁴	85 bp	1070 bp	*01:31N, 01:51, 01:59	
26	545 bp	1070 bp	*01:32, 01:45	*03:78, 11:108
27 ^{4,15}	110 bp, 160 bp	1070 bp	*01:33, 01:87N	
28 ^{4,5}	95 bp	1070 bp	*01:01:38L	*24:02:03Q
29	155 bp	800 bp	*01:35	*03:77
30 ⁵	140 bp	1070 bp	*01:37, 01:95	
31	240 bp	1070 bp	*01:38, 01:63	
32 ^{4,16}	110 bp, 140 bp	1070 bp	*01:43, 01:57N	C*07:191N
33	180 bp	800 bp	*01:61	*03:22:01-03:22:02, 03:42, 11:33:01-11:33:02, 30:01:01-30:04:02, 30:06-30:20, 30:22- 30:27N, 30:29-30:34, 30:36-30:46, 30:48- 30:51, 30:53, 30:55, 31:03-31:04, 33:49, 34:02:01-34:04, 34:07- 34:09
34 ^{4,17}	125 bp, 215 bp	800 bp	*01:58, 01:60	*26:31

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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Lot No.: **06N**

Lot-specific information

35 ^{4,18}	105 bp, 185 bp	800 bp	*01:47, 01:49	
36 ^{4,19}	90 bp, 175 bp	1070 bp	*01:53N-01:54	
37 ^{4,20}	65 bp, 150 bp	1070 bp	*01:65, 01:92	
38 ^{4,21}	100 bp, 180 bp	1070 bp	*01:50, 01:62	*02:315, 03:85
39	205 bp	800 bp	*01:39	*24:26
40	160 bp	1070 bp	*01:36	
41	140 bp	1070 bp	*01:48	
42 ^{4,22}	110 bp, 190 bp	1070 bp	*01:64, 01:87N	
43	550 bp	1070 bp	*01:45, 01:56N	*03:78, 11:69N, 11:108
44 ^{4,23}	65 bp, 245 bp	1070 bp	*01:46, 01:98	*24:87, B*07:64
45 ^{4,5,24}	65 bp, 140 bp	1070 bp	*01:52N, 01:98	*24:87, B*07:64
46 ^{4,25}	85 bp, 155 bp	800 bp	*01:40, 01:81	*03:26, 11:77
47 ^{5,26}	295 bp, 325 bp	1070 bp	*01:41-01:42	*11:48
48 ^{4,5}	95 bp	1070 bp	*01:55, 01:81	*03:26, 11:77

¹ 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 HLA-A*01 SSP typings.

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

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 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-A*01 subtyping.

In addition, wells number 3, 7, 10 to 12, 20, 29, 33 to 35, 39 and 46 contain the primer pair giving rise to the shorter, 800 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.

101. 411-24/06 – including *Taq* polymerase, IFU-01
101. 411-24u/06u – without *Taq* polymerase, IFU-02

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Lot No.: 06N**Lot-specific information**

³Due to the sharing of sequence motifs between HLA-A alleles non-HLA-A*01 alleles will be amplified by primer mixes 1, 2, 4 to 8, 10 to 13, 15, 18, 19, 21, 23, 24, 26, 28, 29, 33, 34, 38, 39 and 43 to 48. In addition, the B*07:64 allele will be amplified by primer mixes 44 and 45 and the C*07:191N allele will be amplified by primer mix 32.

⁴Short specific PCR fragments are less intense and not as sharp as longer specific bands.

⁵Primer mixes 9, 19, 23, 28, 30, 45, 47 and 48 may give rise to non-specific amplifications.

⁶Primer mix 12 might faintly amplify the most A*11, the A*02:27, 02:267, 31:24,C*07:25 and C*16:24 alleles.

⁷Primer mix 6: Specific PCR fragment of 125 bp in the A*01:60 and A*26:31 alleles. Specific PCR fragment of 210 bp in the A*01:09 allele.

⁸Primer mix 8: Specific PCR fragment of 110 bp in the A*01:07, 01:23, 01:51 and 01:83 and the A*31:35 alleles. Specific PCR fragment of 180 bp in the A*01:01:01:02N allele.

⁹Primer mix 10: Specific PCR fragment of 155 bp in the A*01:10 and in the A*11:14^w, 11:50Q, 30:26 and 80:01^w-80:02^w alleles. Specific PCR fragment of 270 bp in the A*01:29 allele.

¹⁰Primer mix 11: Specific PCR fragment of 135 bp in the A*01:13 and 01:28 and in the A*31:35 alleles. Specific PCR fragment of 275 bp in the A*01:11N allele.

¹¹Primer mix 14: Specific PCR fragment of 75 bp in the A*01:59 allele. Specific PCR fragment of 120 bp in the A*01:13 and 01:17 alleles.

¹²Primer mix 16: Specific PCR fragment of 180 bp in the A*01:01:01:02N allele. Specific PCR fragment of 235 bp in the A*01:15N allele.

¹³Primer mix 20: Specific PCR fragment of 65 bp in the A*01:10, A*01:21 and A*01:26 alleles. Specific PCR fragment of 425 bp in the A*01:19 allele.

¹⁴Primer mix 21: Specific PCR fragment of 125 bp in the A*01:44 allele. Specific PCR fragment of 255 bp in the A*01:20 and 01:66 and in the A*02:19, 02:36-02:37, 02:54, 02:255, 24:14 and 24:93 alleles.

¹⁵Primer mix 27: Specific PCR fragment of 110 bp in the A*01:87N allele. Specific PCR fragment of 160 bp in the A*01:33 allele.

¹⁶Primer mix 32: Specific PCR fragment of 110 bp in the A*01:57N and the C*07:191N alleles. Specific PCR fragment of 140 bp in the A*01:43 allele.

¹⁷Primer mix 34: Specific PCR fragment of 125 bp in the A*01:60 and A*26:31 alleles. Specific PCR fragment of 215 bp in the A*01:58 allele.

¹⁸Primer mix 35: Specific PCR fragment of 105 bp in the A*01:47 allele. Specific PCR fragment of 185 bp in the A*01:49 allele.

¹⁹Primer mix 36: Specific PCR fragment of 90 bp in the A*01:54 allele. Specific PCR fragment of 175 bp in the A*01:53N allele.

²⁰Primer mix 37: Specific PCR fragment of 65 bp in the A*01:65 allele. Specific PCR fragment of 150 bp in the A*01:92 allele.

²¹Primer mix 38: Specific PCR fragment of 100 bp in the A*01:50 allele. Specific PCR fragment of 180 bp in the A*01:62 and the A*02:315 and 03:85 alleles.

²²Primer mix 42: Specific PCR fragment of 110 bp in the A*01:87N allele. Specific PCR fragment of 190 bp in the A*01:64 allele.

²³Primer mix 44: Specific PCR fragment of 65 bp in the A*01:98 and the A*24:87 and B*07:64 alleles. Specific PCR fragment of 245 bp in the A*01:46 allele.

²⁴Primer mix 45: Specific PCR fragment of 65 bp in the A*01:98 and the A*24:87 and B*07:64 alleles. Specific PCR fragment of 140 bp in the A*01:52N allele.

²⁵Primer mix 46: Specific PCR fragment of 85 bp in the A*01:81 and the A*03:26 and 11:77 alleles. Specific PCR fragment of 155 bp in the A*01:40 allele.

²⁶Primer mix 47: Specific PCR fragment of 295 bp in the A*01:41 and A*11:48 alleles. Specific PCR fragment of 325 bp in the A*01:42 allele.

'w', might be weakly amplified.

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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Lot No.: 06N

Lot-specific information

INTERPRETATION TABLE																								
HLA-A*01 SSP subtyping																								
Amplification patterns of the A*01:01 to 01:101 alleles																								
	Well ¹¹																							
	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.	235	145	120	305	470	125	215	110	235	155	135	85	205	75	235	180	210	135	170	65	125	590	165	215
PCR product(s)						210		180		270	275			120		235				425	255			
Length of int. pos. control ¹	800	1070	800	1070	1070	1070	800	1070	1070	800	800	800	1070	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070
5'-primer(s) ²	5'-ATA ^{3'} 363	5'-CTT ^{3'} 98	5'-AgT ^{3'} 123	5'-ggA ^{3'} 341	5'-ATA ^{3'} 3rd I	5'-TTA ^{3'} 171	5'-ATA ^{3'} 363	5'-gAA ^{3'} 203	5'-ATA ^{3'} 363	5'-CCC ^{3'} 113	5'-gAA ^{3'} 203	5'-TgC ^{3'} 527	5'-ATA ^{3'} 363	5'-gAA ^{3'} 203	5'-ATA ^{3'} 363	5'-gAA ^{3'} 203	5'-ATA ^{3'} 363	5'-gAA ^{3'} 203	5'-gCC ^{3'} 215	5'-gAA ^{3'} 203	5'-CCg ^{3'} 355	5'-ATA ^{3'} 3rd I	5'-gAA ^{3'} 89	5'-ATA ^{3'} 363
3'-primer(s) ³	5'-CCg ^{3'} 559	5'-TCT ^{3'} 203	5'-TCT ^{3'} 203	5'-TCA ^{3'} 362	5'-ggg ^{3'} 621	5'-CgT ^{3'} 341	5'-TCA ^{3'} 539	5'-CAC ^{3'} 271	5'-CTA ^{3'} 553	5'-CgT ^{3'} 341	5'-CCA ^{3'} 299	5'-CAC ^{3'} 570	5'-CCA ^{3'} 527	5'-CCg ^{3'} 237	5'-CgT ^{3'} 559	5'-CgT ^{3'} 341	5'-TCC ^{3'} 531	5'-TCg ^{3'} 299	5'-CgT ^{3'} 341	5'-AgC ^{3'} 346	5'-CCg ^{3'} 570	5'-T-g ^{3'} 750	5'-TCT ^{3'} 203	5'-TCT ^{3'} 539
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
HLA-A allele ^{4,5}																								
*01:01:01:01, 01:01:02-01:01:22, 01:01:24-01:01:31, 01:01:33-01:01:37, 01:01:39-01:01:43, 01:67-01:68, 01:70-01:72, 01:74-01:79, 01:82, 01:84-01:86, 01:88, 01:90-01:91, 01:93-01:94, 01:96-01:97, 01:99-01:101	1	2																18						
*01:01:01:02N	1	2						8								16		18						
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. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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

Lot No.: **06N**

Lot-specific information

Length of spec.	235	145	120	305	470	125	215	110	235	155	135	85	205	75	235	180	210	135	170	65	125	590	165	215
PCR product(s)						210		180			270	275			120	235				425	255			
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
*01:01:23, 01:73, 01:89		2																18						
*01:01:32, 01:80	1																	18						
*01:01:38L	1	2																18						
*01:02	1		3															18						
*01:03		2		4														18						
*01:04N	1	2			5													18						
*01:06	1	2					7											18						
*01:07	1	2						8																
*01:08		2							9									18						
*01:09	1	2			6													18						
*01:10	1	2								10								18		20				
*01:11N	1	2									11							18						
*01:12		2											13		15			18						24
*01:13	1	2									11			14										
*01:14		2													15			18						
*01:15N	1	2														16		18						
*01:16N	1	2															17	18						
*01:17	1	2												14				18						
*01:18N	1	w																18	19					
*01:19		2											13		15			18		20				24
*01:20			3															18			21			
*01:21	1	2											13					18		20				
*01:22N	1	2																18				22		
*01:23, 01:83	1	2						8										18						
*01:24	1	w																18					23	
*01:25	1	2																18						24
*01:26	1	2																18		20				
*01:27N	1	2							9									18						
*01:28	1	2									11													
*01:29	1	2								10								18						
*01:30	1	2																18	19				23	
*01:31N	1	2																18						
*01:32	1	2																18						
*01:33	1	2																18						
*01:35	1	2																18						
*01:36	1	2																18						
*01:37	1	2																18						
*01:38	1	2																18						
*01:39	1	2																18						
*01:40	1	2																18						
*01:41		2																18						
*01:42	1	2																18						
*01:43	1																	18						
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. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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

Lot No.: **06N**

Lot-specific information

85	545	110	95	155	140	240	110	180	125	105	90	65	100	205	160	140	110	550	65	65	85	295	95	Length of spec. PCR product(s)
		160				140			215	185	175	150	180				190		245	140	155	325		Well No.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
																								*01:01:23, 01:73, 01:89
																								*01:01:32, 01:80
			28																					*01:01:38L
																								*01:02
																								*01:03
																								*01:04N
																								*01:06
																								*01:07
																								*01:08
																								*01:09
																								*01:10
																								*01:11N
																								*01:12
																								*01:13
																								*01:14
																								*01:15N
																								*01:16N
																								*01:17
																								*01:18N
																								*01:19
																								*01:20
																								*01:21
																								*01:22N
																								*01:23, 01:83
																								*01:24
																								*01:25
																								*01:26
																								*01:27N
																								*01:28
																								*01:29
																								*01:30
25																								*01:31N
	26																							*01:32
		27																						*01:33
				29																				*01:35
															40									*01:36
					30																			*01:37
						31																		*01:38
														39										*01:39
																					46			*01:40
																						47		*01:41
																						47		*01:42
							32																	*01:43
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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

Lot No.: **06N**

Lot-specific information

Length of spec.	235	145	120	305	470	125	215	110	235	155	135	85	205	75	235	180	210	135	170	65	125	590	165	215
PCR product(s)						210		180		270	275			120	235				425	255				
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
*01:44	1	2																18			21			
*01:45	1	2																18						
*01:46	1	2																18						
*01:47, 01:49 ⁶	1	2																18						
*01:48	1	2																18						
*01:50, 01:62 ⁷	1	2																18						
*01:51	1	2						8										18						
*01:52N	1	2																18						
*01:53N, 01:54 ⁸	1	2																18						
*01:55	1	2																18						
*01:56N	1	2																18						
*01:57N	1	2																18						
*01:58	1	2																18						
*01:59	1	2												14				18						
*01:60	1	2				6												18						
*01:61	1	2																18						
*01:63		2																18						
*01:64	1	2																18						
*01:65, 01:92 ⁹	1	2																18						
*01:66		2																18			21			
*01:69, 03:18, 11:01:04, 11:08, 11:23, 11:44, 11:94 ¹⁰	1																							
*01:81	1	2																18						
*01:87N	1	2																18						
*01:95	1	2																						
*01:98	1	2																18						
*02:19, 02:36-02:37, 02:54, 02:255, 24:14, 24:93																					21			
*02:156, 11:35							7						w		15									
*02:262, 24:22, 24:160																			19				23	
*02:315																								
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. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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

Lot No.: **06N**

Lot-specific information

85	545	110	95	155	140	240	110	180	125	105	90	65	100	205	160	140	110	550	65	65	85	295	95	Length of spec. PCR product(s)
		160				140			215	185	175	150	180				190		245	140	155	325		Well No.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
	26																	43						*01:44
																			44					*01:45
																								*01:46
										35														*01:47, 01:49 ⁶
																41								*01:48
													38											*01:50, 01:62 ⁷
25																					45			*01:51
																								*01:52N
											36													*01:53N, 01:54 ⁸
																							48	*01:55
																			43					*01:56N
							32																	*01:57N
									34															*01:58
25																								*01:59
										34														*01:60
											33													*01:61
						31																		*01:63
																	42							*01:64
													37											*01:65, 01:92 ⁹
																								*01:66
																								*01:69, 03:18, 11:01:04, 11:08, 11:23, 11:44, 11:94 ¹⁰
																						46	48	*01:81
	27																42							*01:87N
					30																			*01:95
																					44	45		*01:98
																								*02:19, 02:36-02:37, 02:54, 02:255, 24:14, 24:93
																								*02:156, 11:35
													38											*02:262, 24:22, 24:160
																								*02:315
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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

Lot No.: **06N**

Lot-specific information

Length of spec.	235	145	120	305	470	125	215	110	235	155	135	85	205	75	235	180	210	135	170	65	125	590	165	215
PCR product(s)						210		180		270	275			120	235					425	255			
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
*03:01:01:01-03:01:05, 03:01:07-03:01:29, 03:01:31, 03:03N- 03:04:02, 03:06, 03:08- 03:09, 03:11N-03:17, 03:19-03:20, 03:23:01- 03:25, 03:27-03:30, 03:33-03:39, 03:41, 03:43-03:64, 03:66- 03:68N, 03:70-03:72, 03:74, 03:79-03:81, 03:83-03:84, 03:86- 03:89, 03:91N-03:94, 03:96-03:97, 03:99- 03:104, 03:107-03:112, 03:114-03:121, 03:123- 03:132, 32:04															15									
*03:01:30, 03:98, 03:105							7																	
*03:02:01-03:02:02, 03:10, 03:31-03:32, 03:73, 03:76, 03:82, 03:90, 03:106, 03:113, 24:92													13		15									24
*03:05, 03:122, 30:35, 30:54							7								15									
*03:07													w		15									
*03:21N					5										15									
*03:22:01-03:22:02															15									
*03:26															15									
*03:42, 31:03-31:04, 33:49							7						w		15									
*03:65, 03:69N, 11:04, 11:27															15									24
*03:77															15									
*03:78															15									
*03:85															15									
*03:133													13		15									
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. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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

Lot No.: **06N**

Lot-specific information

85	545	110	95	155	140	240	110	180	125	105	90	65	100	205	160	140	110	550	65	65	85	295	95	Length of spec. PCR product(s)
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
																								*03:01:01:01-03:01:05, 03:01:07-03:01:29, 03:01:31, 03:03N- 03:04:02, 03:06, 03:08- 03:09, 03:11N-03:17, 03:19-03:20, 03:23:01- 03:25, 03:27-03:30, 03:33-03:39, 03:41, 03:43-03:64, 03:66- 03:68N, 03:70-03:72, 03:74, 03:79-03:81, 03:83-03:84, 03:86- 03:89, 03:91N-03:94, 03:96-03:97, 03:99- 03:104, 03:107-03:112, 03:114-03:121, 03:123- 03:132, 32:04
																								*03:01:30, 03:98, 03:105
																								*03:02:01-03:02:02, 03:10, 03:31-03:32, 03:73, 03:76, 03:82, 03:90, 03:106, 03:113, 24:92
																								*03:05, 03:122, 30:35, 30:54
																								*03:07
																								*03:21N
								33																*03:22:01-03:22:02
																						46	48	*03:26
								33																*03:42, 31:03-31:04, 33:49
																								*03:65, 03:69N, 11:04, 11:27
				29																				*03:77
	26																	43						*03:78
												38												*03:85
																								*03:133
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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

Lot No.: **06N**

Lot-specific information

Length of spec.	235	145	120	305	470	125	215	110	235	155	135	85	205	75	235	180	210	135	170	65	125	590	165	215
PCR product(s)						210		180		270	275			120	235				425	255				
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
*11:01:01-11:01:03, 11:01:05-11:01:20, 11:01:22-11:03, 11:05- 11:07, 11:09-11:13, 11:15:01-11:20, 11:22, 11:29-11:30, 11:32, 11:34, 11:36-11:43, 11:45-11:47, 11:49, 11:51-11:59, 11:61- 11:68, 11:70-11:76, 11:78N-11:89, 11:91- 11:93, 11:95-11:100, 11:102-11:107, 11:109N	1																							24
*11:01:21, 11:90																								24
*11:14	1								w															24
*11:21N	1				5																			24
*11:24:01-11:25	1						7																	
*11:26, 26:32, 26:70, 33:13, 74:10				4																				
*11:31	1						7						w											
*11:33:01-11:33:02	1																							24
*11:48																								
*11:50Q									10															
*11:60	1												13											24
*11:69N	1																							24
*11:77	1																							24
*11:108	1																							24
*23:07N, 24:11N					5																			
*24:02:03Q																								
*24:26																								
*24:87, B*07:64																								
*26:31					6																			
*30:01:01-30:03, 30:07- 30:08, 30:10-30:13, 30:15-30:16, 30:18- 30:20, 30:22-30:25, 30:27N, 30:30-30:34, 30:36-30:42, 30:44- 30:45, 30:48-30:51, 30:53, 30:55, 34:02:01- 34:04, 34:07-34:09							7								15									
*30:04:01-30:04:02, 30:06, 30:17, 30:29, 30:46													w		15									
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. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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

Lot No.: **06N**

Lot-specific information

85	545	110	95	155	140	240	110	180	125	105	90	65	100	205	160	140	110	550	65	65	85	295	95	Length of spec. PCR product(s) Well No.
		160				140		215	185	175	150	180				190		245	140	155	325			
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
																								*11:01:01-11:01:03, 11:01:05-11:01:20, 11:01:22-11:03, 11:05- 11:07, 11:09-11:13, 11:15:01-11:20, 11:22, 11:29-11:30, 11:32, 11:34, 11:36-11:43, 11:45-11:47, 11:49, 11:51-11:59, 11:61- 11:68, 11:70-11:76, 11:78N-11:89, 11:91- 11:93, 11:95-11:100, 11:102-11:107, 11:109N
																								*11:01:21, 11:90
																								*11:14
																								*11:21N
																								*11:24:01-11:25
																								*11:26, 26:32, 26:70, 33:13, 74:10
								33																*11:31
																								*11:33:01-11:33:02
																						47		*11:48
																								*11:50Q
																								*11:60
																		43						*11:69N
	26																				46	48		*11:77
																		43						*11:108
			28																					*23:07N, 24:11N
																								*24:02:03Q
													39											*24:26
																		44	45					*24:87, B*07:64
								34																*26:31
								33																*30:01:01-30:03, 30:07- 30:08, 30:10-30:13, 30:15-30:16, 30:18- 30:20, 30:22-30:25, 30:27N, 30:30-30:34, 30:36-30:42, 30:44- 30:45, 30:48-30:51, 30:53, 30:55, 34:02:01- 34:04, 34:07-34:09
								33																*30:04:01-30:04:02, 30:06, 30:17, 30:29, 30:46
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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

Lot No.: **06N**

Lot-specific information

Length of spec.	235	145	120	305	470	125	215	110	235	155	135	85	205	75	235	180	210	135	170	65	125	590	165	215
PCR product(s)						210		180		270	275			120	235					425	255			
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
*30:09							7						13		15									
*30:14L, 30:43							7																	
*30:26							7			10					15									
*31:35								8			11													
*36:01-36:02, 36:05		2										12			15			18						
*36:03		2		4								12						18						
*36:04	1	2										12						18						
*80:01-80:02							7			w														
<i>C*07:191N</i>																								
HLA-A allele^{4,5}																								
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

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 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-A*01 subtyping.

In addition, wells number 3, 7, 10 to 12, 20, 29, 33 to 35, 39 and 46 contain the primer pair giving rise to the shorter, 800 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.

²The nucleotide position, in the 2nd, 3rd or 4th exon or the 3rd intron, matching the specificity-determining 3'-end of the primer is given. 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 nucleotide position, in the 2nd, 3rd or 4th exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. 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.

⁴The nucleotide sequence of the A*0105N allele has been shown to be identical to A*01:04N.

The A*01:34N allele has been shown to be expressed at low levels and renamed A*01:01:38L.

⁵HLA-A*01 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.6.0, October 2011.

⁶The A*01:47 and 01:49 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 35.

⁷The A*01:50 and 01:62 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 38.

⁸The A*01:53N and 01:54 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 36.

⁹The A*01:65 and 01:92 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 37.

¹⁰The A*01:69 and the A*03:18, 11:01:04, 11:08, 11:23, 11:44 and 11:94 alleles give rise to identical amplification patterns with the HLA-A*01 primer set. These alleles can be distinguished by the HLA-A low resolution and/or the HLA-A*03 and HLA-A*11 kits.

¹¹Primer mix 6: Specific PCR fragment of 125 bp in the A*01:60 and A*26:31 alleles. Specific PCR fragment of 210 bp in the A*01:09 allele.

Primer mix 8: Specific PCR fragment of 110 bp in the A*01:07, 01:23, 01:51 and 01:83 and the A*31:35 alleles. Specific PCR fragment of 180 bp in the A*01:01:01:02N allele.

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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Lot No.: **06N**

Lot-specific information

85	545	110	95	155	140	240	110	180	125	105	90	65	100	205	160	140	110	550	65	65	85	295	95	Length of spec. PCR product(s)
		160				140			215	185	175	150	180				190	245	140	155	325			Well No.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
								33																*30:09
								33																*30:14L, 30:43
								33																*30:26
																								*31:35
																								*36:01-36:02, 36:05
																								*36:03
																								*36:04
																								*80:01-80:02
							32																	C*07:191N
																								HLA-A allele ^{4,5}
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

Primer mix 10: Specific PCR fragment of 155 bp in the A*01:10 and in the A*11:14^w, 11:50Q, 30:26 and 80:01^w-80:02^w alleles. Specific PCR fragment of 270 bp in the A*0129 allele.

Primer mix 11: Specific PCR fragment of 135 bp in the A*01:13 and 01:28 and in the A*31:35 alleles. Specific PCR fragment of 275 bp in the A*01:11N allele.

Primer mix 14: Specific PCR fragment of 75 bp in the A*01:59 allele. Specific PCR fragment of 120 bp in the A*01:13 and 01:17 alleles.

Primer mix 16: Specific PCR fragment of 180 bp in the A*01:01:01:02N allele. Specific PCR fragment of 235 bp in the A*01:15N allele.

Primer mix 20: Specific PCR fragment of 65 bp in the A*01:10, A*01:21 and A*01:26 alleles. Specific PCR fragment of 425 bp in the A*01:19 allele.

Primer mix 21: Specific PCR fragment of 125 bp in the A*01:44 allele. Specific PCR fragment of 255 bp in the A*01:20 and 01:66 and in the A*02:19, 02:36-02:37, 02:54, 02:255, 24:14 and 24:93 alleles.

Primer mix 27: Specific PCR fragment of 110 bp in the A*01:87N allele. Specific PCR fragment of 160 bp in the A*01:33 allele.

Primer mix 32: Specific PCR fragment of 110 bp in the A*01:57N and the C*07:191N alleles. Specific PCR fragment of 140 bp in the A*01:43 allele.

Primer mix 34: Specific PCR fragment of 125 bp in the A*01:60 and A*26:31 alleles. Specific PCR fragment of 215 bp in the A*01:58 allele.

Primer mix 35: Specific PCR fragment of 105 bp in the A*01:47 allele. Specific PCR fragment of 185 bp in the A*01:49 allele.

Primer mix 36: Specific PCR fragment of 90 bp in the A*01:54 allele. Specific PCR fragment of 175 bp in the A*01:53N allele.

Primer mix 37: Specific PCR fragment of 65 bp in the A*01:65 allele. Specific PCR fragment of 150 bp in the A*01:92 allele.

Primer mix 38: Specific PCR fragment of 100 bp in the A*01:50 allele. Specific PCR fragment of 180 bp in the A*01:62 and the A*02:315 and 03:85 alleles.

Primer mix 42: Specific PCR fragment of 110 bp in the A*01:87N allele. Specific PCR fragment of 190 bp in the A*01:64 allele.

Primer mix 44: Specific PCR fragment of 65 bp in the A*01:98 and the A*24:87 and B*07:64 alleles. Specific PCR fragment of 245 bp in the A*01:46 allele.

Primer mix 45: Specific PCR fragment of 65 bp in the A*01:98 and the A*24:87 and B*07:64 alleles. Specific PCR fragment of 140 bp in the A*01:52N allele.

Primer mix 46: Specific PCR fragment of 85 bp in the A*01:81 and the A*03:26 and 11:77 alleles. Specific PCR fragment of 155 bp in the A*01:40 allele.

Primer mix 47: Specific PCR fragment of 295 bp in the A*01:41 and A*11:48 alleles. Specific PCR fragment of 325 bp in the A*01:42 allele.

^w, might be weakly amplified.

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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Lot No.: **06N**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-A*01 SSP subtyping kit																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	200962901	200962902	200962903	200962904	200962905	201079206	200962907	201293808	200962909	200962910	200962911	201293812	200962913	201079214	200962915	201079216
IHCW cell line		A*																		
1	9001	SA	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*02:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011	E4181324	*01:01	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*30:01	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
5	9009	KAS011	*01:01	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353	SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020	QBL	*26:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*31:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*26:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*02:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*02:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*31:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*80:01	-	-	-	-	-	-	+	-	-	W	-	-	-	-	+	-
18	9257	32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*02:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*02:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*02:17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*02:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*32:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*33:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*02:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*30:01	*68:02	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
31	9019	DUCAF	*30:02	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
32	9297	HAG	*02:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*31:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*31:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*32:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*02:06	*11:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
38	9099	LZL	*02:17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*01:01	*03:01	+	+	-	-	-	-	-	-	-	-	-	-	-	-	+	-
40	9134	WHONP199	*02:07	*30:01	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
41	9055	H0301	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
42	9066	TAB089	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076	T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057	TEM	*66:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
47	9045	TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
48	9303	TER-ND	*02:01	*11:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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Lot No.: **06N**

Lot-specific information

CELL LINE VALIDATION SHEET																					
HLA-A*01 SSP subtyping kit																					
				Prod. No.:	Well																
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
					200962917	200962918	200962919	200962920	201079221	200962922	200962923	200962924	201079225	201293826	201293827	200962928	201079229	201293830	201079231	201079232	
	IHWC cell line	A*																			
1	9001 SA	*24:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
5	9009 KAS011	*01:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*26:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*31:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*29:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*33:03	*74:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*30:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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Lot No.: **06N**

Lot-specific information

CELL LINE VALIDATION SHEET																					
HLA-A*01 SSP subtyping kit																					
				Prod. No.:	Well																
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
					201079233	201079234	201079235	201079236	201293837	201079238	201293839	201079240	201079241	201293842	201293843	201293844	201293845	201293846	201079247	201293848	
	IHWC cell line		A*																		
1	9001 SA		*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707		*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324		*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373		*30:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011		*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM		*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL		*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU		*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR		*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3		*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT		*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB		*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM		*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA		*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB		*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007		*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540		*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367		*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16		*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005		*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA		*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE		*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL		*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH		*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9		*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49		*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007		*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB		*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU		*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH		*30:01	*68:02	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF		*30:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG		*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B		*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF		*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO		*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17		*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB		*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL		*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML		*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199		*02:07	*30:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301		*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089		*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526		*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM		*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO		*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU		*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO		*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND		*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101. 411-24/06 – including *Taq* polymerase, IFU-01
 101. 411-24u/06u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **06N**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-A*01 SSP

Product number: 101.411-24/06 – including *Taq* pol.
 101.411-24u/06u – without *Taq* pol.

Lot number: 06N

Expiry date: 2014-July-01

Number of tests: 24 test – Product No. 101.411-24/24u
 6 tests – Product No. 101.411-06/06u

Number of wells per test: 48

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2009-629-01	17	2009-629-17	33	2010-792-33
2	2009-629-02	18	2009-629-18	34	2010-792-34
3	2009-629-03	19	2009-629-19	35	2010-792-35
4	2009-629-04	20	2009-629-20	36	2010-792-36
5	2009-629-05	21	2010-792-21	37	2012-938-37
6	2010-792-06	22	2009-629-22	38	2010-792-38
7	2009-629-07	23	2009-629-23	39	2012-938-39
8	2012-938-08	24	2009-629-24	40	2010-792-40
9	2009-629-09	25	2010-792-25	41	2010-792-41
10	2009-629-10	26	2012-938-26	42	2012-938-42
11	2009-629-11	27	2012-938-27	43	2012-938-43
12	2012-938-12	28	2009-629-28	44	2012-938-44
13	2009-629-13	29	2010-792-29	45	2012-938-45
14	2010-792-14	30	2012-938-30	46	2012-938-46
15	2009-629-15	31	2010-792-31	47	2010-792-47
16	2010-792-16	32	2010-792-32	48	2012-938-48

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

No DNAs carrying the alleles to be amplified by primer solutions 6, 8 to 11, 14, 16, 19 to 23, 25 to 32 and 34 to 48 were available. The specificities of primers in primer solutions 8, 10, 11, 14, 19 to 21, 23, 25, 30, 32, 38, 44 to 46 and 48 were tested by separately adding additional 5'-primers, respectively additional 3'-primers. In primer solution 6, 31, 34, 37, 39 and 40 it was only possible to test the 3'-primer, the 5'-primer was not possible to test. In primer solutions 9, 16, 22, 26 to 29, 35, 36, 41 to 43 and 47 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 8, 10, 11, 14, 16, 20, 25, 30, 32, 38 and 46 one or two of the 3'-primers was not possible to test, and in primer solutions 10, 19, 21, 44, 45 and 48 one of the 5'-primers was not possible to test. An additional 3'-primer in primer solutions 15 was tested by separately adding one 5'-primer.

101. 411-24/06 – including *Taq* polymerase, IFU-01
101. 411-24u/06u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **06N**

Lot-specific information

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

Date of approval: 2012-January-17

Approved by:

Production Quality Control

101. 411-24/06 – including *Taq* polymerase, IFU-01
101. 411-24u/06u – without *Taq* polymerase, IFU-02

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Lot No.: **06N**

Lot-specific information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-A*01

Product number: 101.411-24/06
101.411-24u/06u

Lot number: 06N

Intended use: HLA-A*01 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 II List B, 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.

Notified Body: Lloyd's Register Quality Assurance Limited, Hiramford, Middlemarch Office Village, Siskin Drive, Coventry CV3 4FJ, United Kingdom. (Notified Body number: 0088.)

Stockholm, Sweden
2012-January-17

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101. 411-24/06 – including *Taq* polymerase, IFU-01
101. 411-24u/06u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **06N**

Lot-specific information

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