

101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
101.625-06u – without *Taq* polymerase, IFU-02 Rev. No. 03

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“Instructions for Use” (IFU)

Lot No.: **54N**

Lot-specific information

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Olerup SSP[®] HLA-C*14

Product number:	101.625-06 – including <i>Taq</i> polymerase 101.625-06u – without <i>Taq</i> polymerase
Lot number:	54N
Expiry date:	2014-November-01
Number of tests:	6
Number of wells per test:	24
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. 54N.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP[®] HLA-C*14 Lot (20L)

The HLA-C*14 specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP[®]* HLA-C*14 lot was made (Lot No. 20L).

The HLA-C*14 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

One well has been added to the HLA-C*14 kit, well **24**.

The Lot-specific information for HLA-C*14 including and without *Taq* polymerase is now described in one common Product Insert.

¹As described in section Uniquely Identified Alleles.

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

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Well	5'-primer	3'-primer	rationale
20	Added	-	5'-primer added for the C*14:35N allele.
21	-	Added	3'-primer added for the C*14:32 allele.
22	Added	Added	Primer pair added for the C*14:31 allele.
23	-	Added	3'-primer added for the C*14:32 allele.
24	New	New	New primer pairs for the C*14:33 and C*14:34 alleles.

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PRODUCT DESCRIPTION

HLA-C*14 SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for identifying the C*14:02 to C*14:37 alleles.

PLATE LAYOUT

Each HLA-C*14 test consists of 24 PCR reactions in a 24 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

The 24 well cut PCR plate is marked with 'HLA-C*14' in silver/gray ink .

Well No. 1 is marked with the Lot No. '54N'.

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 24 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-C*14 SSP subtypings will be influenced by five C*01, five C*02, the C*03, most C*04, the C*05:01:12, most C*06, most C*07, most C*08, most C*12, six C*15, many C*16, the C*17 and the C*18 alleles when present on the other haplotype.

In addition, primer mix 4 will amplify the B*35:08:02, B*35:08:05 and B*67:02 alleles, primer mix 6 will amplify the B*15:78:03 allele, primer mix 7 will amplify the B*07:13 and B*07:15 alleles and primer mix 8 will amplify the B*55:30 allele.

UNIQUELY IDENTIFIED ALLELES

All the HLA-C*14 alleles, i.e. **C*14:02 to C*14:37**, recognized by the HLA Nomenclature Committee in April 2012¹ will be amplified by the primers in the HLA-C*14 SSP kit.

The HLA-C*14 kit enables separation of the confirmed HLA-C*14 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-C*14 alleles is listed below.

The HLA-C*14 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles

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The C*14:18 and 14:29 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 19.

The C*14:24 and 14:31 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 22.

The HLA-C*14 subtyping kit cannot distinguish the following silent mutations: the C*14:02:01 and 14:02:04-14:02:10 alleles.

¹HLA-C alleles listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, www.ebi.ac.uk/imgt/hla.

ALLELE CONFIRMATION STATUS

Allele	Status ¹	Allele	Status ¹	Allele	Status ¹
C*14:02:01	Confirmed	C*14:13	Unconfirmed	C*14:33	Confirmed
C*14:02:02	Unconfirmed	C*14:14	Confirmed	C*14:34	Confirmed
C*14:02:03	Confirmed	C*14:15	Unconfirmed	C*14:35N	Unconfirmed
C*14:02:04	Unconfirmed	C*14:16	Confirmed	C*14:36	Unconfirmed
C*14:02:05	Confirmed	C*14:17	Confirmed	C*14:37	Unconfirmed
C*14:02:06	Unconfirmed	C*14:18	Confirmed		
C*14:02:07	Confirmed	C*14:19	Unconfirmed		
C*14:02:08	Unconfirmed	C*14:20	Unconfirmed		
C*14:02:09	Unconfirmed	C*14:21N	Unconfirmed		
C*14:02:10	Unconfirmed	C*14:22	Unconfirmed		
C*14:03	Confirmed	C*14:23	Unconfirmed		
C*14:04	Confirmed	C*14:24	Unconfirmed		
C*14:05	Confirmed	C*14:25	Confirmed		
C*14:06	Unconfirmed	C*14:26	Confirmed		
C*14:07N	Unconfirmed	C*14:27	Confirmed		
C*14:08	Unconfirmed	C*14:28	Unconfirmed		
C*14:09	Confirmed	C*14:29	Confirmed		
C*14:10	Confirmed	C*14:30	Unconfirmed		
C*14:11	Confirmed	C*14:31	Unconfirmed		
C*14:12	Unconfirmed	C*14:32	Confirmed		

¹Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, www.ebi.ac.uk/imgt/hla.

RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 41 alleles generate 32 amplification patterns that can be combined in 528 homozygous and heterozygous combinations. 354 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.

+-----+--- +-----+----- *14:05, *14:05 = *14:05, *14:09
 +-----+--- +-----+----- *14:02:02, *14:17 = *14:17, *14:17
 +-----+--- +-----+----- *14:02:01, *14:02:01 = *14:02:01, *14:02:02
 +-----+--- +-----+----- *14:06, *14:15 = *14:15, *14:15

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+-----+ +-----+ +-----+	*14:05, *14:16 = *14:09, *14:16
+-----+ ++-----+ -----	*14:05, *14:06 = *14:06, *14:09
+-----+ +-----+ -----+	*14:02:01, *14:33 = *14:02:01, *14:34 = *14:02:02, *14:33 = *14:02:02, *14:34 = *14:33, *14:33 = *14:33, *14:34
+-----+ +-----+ -----+	*14:02:01, *14:25 = *14:02:02, *14:25 = *14:25, *14:25
+-----+ +-----+ -----+	*14:02:01, *14:24 = *14:02:02, *14:24 = *14:24, *14:24
+-----+ +-----+ -----+	*14:02:01, *14:20 = *14:02:02, *14:20 = *14:20, *14:20
+-----+ +-----+ -----+	*14:02:01, *14:19 = *14:02:01, *14:28 = *14:02:02, *14:19 = *14:19, *14:19 = *14:19, *14:28
+-----+ +-----+ --+-----	*14:02:01, *14:18 = *14:02:02, *14:18 = *14:18, *14:18
+-----+ +-----+ --+-----	*14:02:01, *14:17 = *14:02:01, *14:26 = *14:02:02, *14:26 = *14:17, *14:26 = *14:26, *14:26
+-----+ +-----+ +-----+	*14:02:01, *14:16 = *14:02:01, *14:27 = *14:02:02, *14:16 = *14:02:02, *14:27 = *14:16, *14:27 = *14:27, *14:27
+-----+ +-----+ +-----+	*14:02:01, *14:13 = *14:02:02, *14:13 = *14:13, *14:13
+-----+ +-----+ +-----+	*14:02:01, *14:11 = *14:02:02, *14:11 = *14:11, *14:11
+-----+ +-----+ +-----+	*14:02:01, *14:14 = *14:02:02, *14:14 = *14:14, *14:14
+-----+ +-----+ +-----+	*14:02:01, *14:23 = *14:02:02, *14:23 = *14:23, *14:23
+-----+ +-----+ +-----+	*14:02:01, *14:07N = *14:02:02, *14:07N = *14:07N, *14:07N
+-----+ +-----+ +-----+	*14:02:01, *14:06 = *14:02:01, *14:21N = *14:02:02, *14:06 = *14:02:02, *14:21N = *14:06, *14:21N = *14:21N, *14:21N
+-----+ +-----+ +-----+	*14:02:01, *14:05 = *14:02:01, *14:09 = *14:02:02, *14:05
+-----+ +-----+ +-----+	*14:02:03, *14:03 = *14:03, *14:03
+-----+ +-----+ +-----+	*14:05, *14:15 = *14:09, *14:15
+-----+ +-----+ +-----+	*14:25, *14:33 = *14:25, *14:34
+-----+ +-----+ +-----+	*14:24, *14:33 = *14:24, *14:34
+-----+ +-----+ +-----+	*14:20, *14:33 = *14:20, *14:34
+-----+ +-----+ +-----+	*14:02:01, *14:32 = *14:02:02, *14:32 = *14:20, *14:25 = *14:20, *14:32 = *14:25, *14:32 = *14:32, *14:32
+-----+ +-----+ +-----+	*14:19, *14:33 = *14:19, *14:34 = *14:28, *14:33 = *14:28, *14:34
+-----+ +-----+ +-----+	*14:19, *14:25 = *14:25, *14:28
+-----+ +-----+ +-----+	*14:19, *14:24 = *14:24, *14:28
+-----+ +-----+ +-----+	*14:19, *14:20 = *14:20, *14:28
+-----+ +-----+ +-----+	*14:18, *14:33 = *14:18, *14:34
+-----+ +-----+ +-----+	*14:18, *14:19 = *14:18, *14:28
+-----+ +-----+ +-----+	*14:17, *14:33 = *14:17, *14:34 = *14:26, *14:33 = *14:26, *14:34
+-----+ +-----+ +-----+	*14:17, *14:25 = *14:25, *14:26
+-----+ +-----+ +-----+	*14:17, *14:24 = *14:24, *14:26
+-----+ +-----+ +-----+	*14:17, *14:20 = *14:20, *14:26
+-----+ +-----+ +-----+	*14:17, *14:19 = *14:19, *14:26 = *14:26, *14:28
+-----+ +-----+ +-----+	*14:17, *14:18 = *14:18, *14:26
+-----+ +-----+ +-----+	*14:16, *14:33 = *14:16, *14:34 = *14:27, *14:33 = *14:27, *14:34
+-----+ +-----+ +-----+	*14:16, *14:25 = *14:25, *14:27
+-----+ +-----+ +-----+	*14:16, *14:24 = *14:24, *14:27
+-----+ +-----+ +-----+	*14:16, *14:20 = *14:20, *14:27
+-----+ +-----+ +-----+	*14:16, *14:19 = *14:19, *14:27 = *14:27, *14:28
+-----+ +-----+ +-----+	*14:16, *14:18 = *14:18, *14:27
+-----+ +-----+ +-----+	*14:16, *14:17 = *14:16, *14:26 = *14:17, *14:27 = *14:26, *14:27
+-----+ +-----+ +-----+	*14:13, *14:33 = *14:13, *14:34
+-----+ +-----+ +-----+	*14:13, *14:19 = *14:13, *14:28
+-----+ +-----+ +-----+	*14:13, *14:17 = *14:13, *14:26
+-----+ +-----+ +-----+	*14:13, *14:16 = *14:13, *14:27
+-----+ +-----+ +-----+	*14:11, *14:33 = *14:11, *14:34
+-----+ +-----+ +-----+	*14:11, *14:19 = *14:11, *14:28
+-----+ +-----+ +-----+	*14:11, *14:17 = *14:11, *14:26
+-----+ +-----+ +-----+	*14:11, *14:16 = *14:11, *14:27



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+-----+ +-----+ -----+	*14:14, *14:33 = *14:14, *14:34
+-----+ +-----+ -----+	*14:14, *14:19 = *14:14, *14:28
+-----+ +-----+ -----+	*14:14, *14:17 = *14:14, *14:26
+-----+ +-----+ -----+	*14:14, *14:16 = *14:14, *14:27
+-----+ +-----+ -----+	*14:23, *14:33 = *14:23, *14:34
+-----+ +-----+ -----+	*14:19, *14:23 = *14:23, *14:28
+-----+ +-----+ -----+	*14:17, *14:23 = *14:23, *14:26
+-----+ +-----+ -----+	*14:16, *14:23 = *14:23, *14:27
+-----+ +-----+ -----+	*14:07N, *14:33 = *14:07N, *14:34
+-----+ +-----+ -----+	*14:07N, *14:19 = *14:07N, *14:28
+-----+ +-----+ -----+	*14:07N, *14:17 = *14:07N, *14:26
+-----+ +-----+ -----+	*14:07N, *14:16 = *14:07N, *14:27
+-----+ +-----+ -----+	*14:06, *14:33 = *14:06, *14:34 = *14:21N, *14:33 = *14:21N, *14:34
+-----+ +-----+ -----+	*14:06, *14:25 = *14:21N, *14:25
+-----+ +-----+ -----+	*14:06, *14:24 = *14:21N, *14:24
+-----+ +-----+ -----+	*14:06, *14:20 = *14:20, *14:21N
+-----+ +-----+ -----+	*14:06, *14:19 = *14:19, *14:21N = *14:21N, *14:28
+-----+ +-----+ -----+	*14:06, *14:18 = *14:18, *14:21N
+-----+ +-----+ -----+	*14:06, *14:17 = *14:06, *14:26 = *14:17, *14:21N = *14:21N, *14:26
+-----+ +-----+ -----+	*14:06, *14:27 = *14:16, *14:21N = *14:21N, *14:27
+-----+ +-----+ -----+	*14:06, *14:13 = *14:13, *14:21N
+-----+ +-----+ -----+	*14:02:01, *14:15 = *14:02:02, *14:15 = *14:06, *14:11 = *14:11, *14:15 = *14:11, *14:21N = *14:15, *14:21N
+-----+ +-----+ -----+	*14:06, *14:14 = *14:14, *14:21N
+-----+ +-----+ -----+	*14:06, *14:23 = *14:21N, *14:23
+-----+ +-----+ -----+	*14:06, *14:07N = *14:07N, *14:21N
+-----+ +-----+ -----+	*14:05, *14:33 = *14:05, *14:34 = *14:09, *14:33 = *14:09, *14:34
+-----+ +-----+ -----+	*14:05, *14:25 = *14:09, *14:25
+-----+ +-----+ -----+	*14:05, *14:24 = *14:09, *14:24
+-----+ +-----+ -----+	*14:05, *14:20 = *14:09, *14:20
+-----+ +-----+ -----+	*14:05, *14:19 = *14:09, *14:19
+-----+ +-----+ -----+	*14:05, *14:18 = *14:09, *14:18
+-----+ +-----+ -----+	*14:05, *14:17 = *14:05, *14:26 = *14:09, *14:26
+-----+ +-----+ -----+	*14:05, *14:27 = *14:09, *14:27
+-----+ +-----+ -----+	*14:05, *14:13 = *14:09, *14:13
+-----+ +-----+ -----+	*14:05, *14:11 = *14:09, *14:11
+-----+ +-----+ -----+	*14:05, *14:14 = *14:09, *14:14
+-----+ +-----+ -----+	*14:05, *14:23 = *14:09, *14:23
+-----+ +-----+ -----+	*14:05, *14:07N = *14:07N, *14:09
+-----+ +-----+ -----+	*14:05, *14:21N = *14:09, *14:21N
+-----+ +-----+ -----+	*14:02:01, *14:12 = *14:02:02, *14:12 = *14:12, *14:12
+-----+ +-----+ -----+	*14:02:01, *14:04 = *14:02:02, *14:04 = *14:04, *14:04
+-----+ +-----+ -----+	*14:02:01, *14:02:03 = *14:02:02, *14:02:03
+-----+ +-----+ -----+	*14:02:03, *14:10 = *14:03, *14:10 = *14:10, *14:10
+-----+ +-----+ -----+	*14:32, *14:33 = *14:32, *14:34
+-----+ +-----+ -----+	*14:19, *14:32 = *14:28, *14:32
+-----+ +-----+ -----+	*14:17, *14:32 = *14:26, *14:32
+-----+ +-----+ -----+	*14:16, *14:32 = *14:27, *14:32
+-----+ +-----+ -----+	*14:06, *14:32 = *14:21N, *14:32
+-----+ +-----+ -----+	*14:15, *14:33 = *14:15, *14:34
+-----+ +-----+ -----+	*14:15, *14:17 = *14:15, *14:26
+-----+ +-----+ -----+	*14:05, *14:32 = *14:09, *14:32
+-----+ +-----+ -----+	*14:02:01, *14:22 = *14:02:02, *14:22 = *14:16, *14:22 = *14:22, *14:22 = *14:22, *14:27



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+--+---+	+-----+	-----+	*14:12, *14:33 = *14:12, *14:34
+--+---+	+-----+	-----+	*14:12, *14:19 = *14:12, *14:28
+--+---+	+-----+	+-----	*14:12, *14:17 = *14:12, *14:26
+--+---+	+-----+	+-----	*14:12, *14:16 = *14:12, *14:27
+--+---+	+-----+	-----	*14:06, *14:12 = *14:12, *14:21N
+--+---+	+-----+	-----+	*14:04, *14:33 = *14:04, *14:34
+--+---+	+-----+	-----	*14:04, *14:19 = *14:04, *14:28
+--+---+	+-----+	+-----	*14:04, *14:17 = *14:04, *14:26
+--+---+	+-----+	+-----	*14:04, *14:16 = *14:04, *14:27
+--+---+	+-----+	-----	*14:04, *14:06 = *14:04, *14:21N
+--+---+	+-----+	-----	*14:05, *14:12 = *14:09, *14:12
+--+---+	+-----+	-----	*14:04, *14:05 = *14:04, *14:09
+--+---+	+-----+	-----	*14:05, *14:08 = *14:08, *14:09
+--+---+	+-----+	-----	*14:02:03, *14:19 = *14:02:03, *14:28
+--+---+	+-----+	+-----	*14:02:03, *14:17 = *14:02:03, *14:26
+--+---+	+-----+	+-----	*14:02:03, *14:16 = *14:02:03, *14:27
+--+---+	+-----+	-----	*14:02:01, *14:08 = *14:02:02, *14:08 = *14:02:03, *14:23 = *14:08, *14:23
+--+---+	+-----+	-----	*14:02:03, *14:06 = *14:02:03, *14:21N
+--+---+	+-----+	-----	*14:02:01, *14:03 = *14:02:02, *14:03
+--+---+	+-----+	-----	*14:02:03, *14:05 = *14:02:03, *14:09
+--+---+	+-----+	+-----+	*14:22, *14:33 = *14:22, *14:34
+--+---+	+-----+	+-----	*14:19, *14:22 = *14:22, *14:28
+--+---+	+-----+	+-----	*14:17, *14:22 = *14:22, *14:26
+--+---+	+-----+	+-----	*14:06, *14:22 = *14:21N, *14:22
+--+---+	+-----+	+-----	*14:05, *14:22 = *14:09, *14:22
+--+---+	+-----+	+-----	*14:08, *14:17 = *14:08, *14:26
+--+---+	+-----+	+-----	*14:03, *14:19 = *14:03, *14:28
+--+---+	+-----+	+-----	*14:03, *14:17 = *14:03, *14:26
+--+---+	+-----+	+-----	*14:02:03, *14:22 = *14:03, *14:16 = *14:03, *14:22 = *14:03, *14:27
+--+---+	+-----+	-----	*14:02:01, *14:10 = *14:02:02, *14:10 = *14:03, *14:14 = *14:10, *14:14
+--+---+	+-----+	-----	*14:03, *14:06 = *14:03, *14:21N
+--+---+	+-----+	-----	*14:03, *14:05 = *14:03, *14:09
+--+---+	+-----+	-----	*14:10, *14:19 = *14:10, *14:28
+--+---+	+-----+	+-----	*14:10, *14:17 = *14:10, *14:26
+--+---+	+-----+	+-----	*14:10, *14:16 = *14:10, *14:22 = *14:10, *14:27
+--+---+	+-----+	-----	*14:06, *14:10 = *14:10, *14:21N
+--+---+	+-----+	-----	*14:05, *14:10 = *14:09, *14:10

*14:02:01 = *14:02:01 and 14:02:04-14:02:10 and the 14:30 and 14:36-14:37
 *14:18 = *14:18 and 14:29
 *14:24= *14:24 and 14:31



101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
 101.625-06u – without *Taq* polymerase, IFU-02 Rev. No. 03

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Lot-specific information
SPECIFICITY TABLE

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HLA-C*14 SSP subtyping

Specificities and sizes of the PCR products of the 24 primer mixes used for HLA-C*14 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-C*14 alleles ³	Other amplified HLA Class I alleles ⁴
1	145 bp	800 bp	*14:02:01-14:02:02, 14:02:04-14:02:10, 14:04-14:07N, 14:09, 14:11-14:33, 14:36-14:37	*07:64
2⁶	145 bp	1070 bp	*14:02:03, 14:03, 14:08, 14:10, 14:35N	*04:01:01:01-04:01:22, 04:01:24-04:01:37, 04:04:01-04:05, 04:07-04:15:03, 04:17-04:20, 04:23-04:25, 04:26 ^w , 04:27-04:41, 04:43-04:55, 04:57-04:70, 04:72-04:79, 04:81-04:89, 04:90 ^w , 04:91-04:102, 04:104-04:106, 04:108-04:112, 12:55, 15:36
3	245 bp	800 bp	*14:04, 14:12	*04:01:01:01-04:01:28, 04:01:30-04:01:37, 04:04:01-04:05, 04:07-04:10, 04:12-04:15:03, 04:17-04:20, 04:23-04:25, 04:26 ^w , 04:27-04:28, 04:30-04:35, 04:37-04:41, 04:43-04:54, 04:56-04:70, 04:72-04:79, 04:81-04:89, 04:90 ^w , 04:91-04:102, 04:104-04:106, 04:108-04:112, 15:36
4	140 bp	1070 bp	*14:02:03, 14:03, 14:08, 14:10, 14:22, 14:35N	*01:21, 02:12 ^w , 02:27:01-02:27:02, 03:04:25, 04:11, 04:29, 04:36, 04:55, 07:02:09, 08:01:01-08:09, 08:11-08:60, 12:02:01-12:03:03, 12:03:05-12:03:08, 12:03:10-12:03:20, 12:06-12:08, 12:10:01-12:20, 12:22-12:26, 12:28-12:32, 12:34-12:40, 12:42Q-12:53, 12:55-12:59, 12:61-12:71, 12:72 ^w , 12:73-12:76, 15:07,

101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
 101.625-06u – without *Taq* polymerase, IFU-02 Rev. No. 03

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Lot No.:	210 bp	1070 bp	Lot-specific information	www.olerup-ssp.com
				15:21 ^w , 15:25, 16:01:01, 16:01:03-16:01:07, 16:04, 16:06-16:08, 16:10-16:11, 16:13-16:18, 16:20-16:24, 16:26-16:36, 16:37 ^w , 16:38- 16:45, B*35:08:02 , B*35:08:05 , B*67:02
5	210 bp	1070 bp	*14:02:01- 14:04, 14:07N, 14:10-14:14, 14:17-14:27, 14:29-14:34, 14:36-14:37	
6	130 bp	1070 bp	*14:05, 14:09	*03:02:01-03:02:07, 03:02:09- 03:04:26, 03:06-03:13, 03:15- 03:24, 03:26, 03:28-03:40:01, 03:41-03:43:01, 03:44-03:57, 03:59-03:85, 03:88, 03:91- 03:93, 03:95-03:98, 03:100- 03:101, 03:104-03:118, 03:120-03:121N, 03:123- 03:127, 03:129-03:134, 03:136-03:142, 03:144-03:146, 04:15:01-04:15:03, 04:17, 04:80, 04:100, 06:02:08, 08:02:07, 08:33:02, 12:03:20, 16:01:06, B*15:78:03
7⁷	130 bp	1070 bp	*14:04	*01:17, 01:23, 03:15, 03:27, 03:38:01-03:38:02, 03:69, 03:130, 03:136, 04:01:23, 06:02:01:01-06:02:01:02, 06:02:03-06:04, 06:06-06:43, 06:45-06:60, 06:62-06:76, 07:01:01-07:02:07, 07:02:10- 07:02:28, 07:02:30-07:20, 07:22-07:33N, 07:35-07:38:02, 07:41-07:68, 07:70-07:71, 07:73-07:151, 07:153-07:155, 07:157-07:176, 07:178-07:209, 07:211-07:222, 07:223 ^w , 07:224-07:235, 12:03:04, 12:03:09, 12:04:01, 17:01:01:01-17:01:03, 17:01:05-17:11, 18:01-18:05, B*07:13 , B*07:15
8	210 bp	1070 bp	*14:03, 14:10, 14:22, 14:35N	*01:48, 02:12 ^w , 02:27:01- 02:27:02, 03:02:01-03:03:14,

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Lot No.: 54N		Lot-specific information		www.olerup-ssp.com
				03:03:15 ^W , 03:03:16-03:04:16, 03:04:18-03:06, 03:08-03:09, 03:10 ^W , 03:12-03:14, 03:16- 03:17, 03:19-03:28, 03:29 ^W , 03:30-03:36, 03:38:01- 03:38:02, 03:40:01-03:44, 03:46-03:49, 03:51-03:63, 03:65-03:98, 03:100-03:106, 03:108-03:114, 03:116-03:129, 03:131-03:133, 03:135-03:139, 03:141-03:146, 07:20, 07:96, 07:127, 15:07, 15:21 ^W , 15:25, 15:43, 16:34, B*55:30
9	140 bp	1070 bp	*14:02:01, 14:02:03-14:08, 14:10-14:16, 14:18-14:27, 14:29-14:37	*03:17, 03:71, 04:37, 06:02:08, 12:03:20, 16:01:06
10^{5,8}	100 bp, 210 bp	1070 bp	*14:06, 14:15, 14:21N	
11	205 bp	1070 bp	*14:07N	
12⁹	225 bp, 320 bp	1070 bp	*14:08, 14:23	
13^{5,10}	125 bp, 285 bp	1070 bp	*14:10, 14:14	*04:52, 04:55
14¹¹	200 bp, 290 bp	1070 bp	*14:11, 14:15	
15	150 bp	800 bp	*14:12	*01:14, 02:02:13, 03:07, 03:10, 03:15, 03:29, 03:45, 04:01:23, 05:01:12, 06:02:01:01- 06:02:01:02, 06:02:03-06:04, 06:06-06:10, 06:12-06:76, 07:07, 07:09, 07:76, 12:04:01, 15:02:10, 17:01:01:01- 17:01:03, 17:01:05-17:11, 18:01-18:05
16	410 bp	1070 bp	*14:13	*03:15, 03:32, 03:45, 03:60, 03:136, 04:01:01:01-04:01:04, 04:01:06, 04:01:08, 04:01:10- 04:01:32, 04:01:34-04:01:37, 04:03-04:04:01, 04:05-04:10, 04:12-04:20, 04:23-04:32, 04:34-04:54, 04:56-04:94:01, 04:95N-04:97, 04:99-04:106, 04:108-04:112, 06:02:08, 18:01-18:05

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Lot No.: 54N	Lot-specific information			www.olerup-ssp.com
17 ¹²	150 bp, 210 bp	1070 bp	*14:16, 14:22, 14:27	*02:17
18 ^{5,13}	90 bp, 185 bp	1070 bp	*14:17, 14:26	
19 ^{5,14}	85 bp, 185 bp	1070 bp	*14:18, 14:29	
20 ^{5,15}	105 bp, 140 bp	1070 bp	*14:19, 14:28, 14:35N	*03:88
21 ^{5,16}	125 bp, 230 bp	1070 bp	*14:20, 14:32	
22 ^{5,17}	95 bp, 250 bp	1070 bp	*14:24, 14:31	
23 ^{5,18}	125 bp, 230 bp	1070 bp	*14:25, 14:32	*02:17
24	145 bp	1070 bp	*14:33-14:34	

¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-C*14 resolution 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 length of the specific PCR product(s) of the alleles amplified by these primer mixes is 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-C*14 SSP subtyping.

In addition, wells number 3 and 15 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.

³For several HLA-C*14 alleles 4th exon or intron nucleotide sequences are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in the 4th exon or in introns are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-C alleles non-HLA-C*14 alleles will be amplified by primer mixes 1 to 4, 6 to 9, 13, 15 to 17, 20 and 23. In addition, primer mix 4 will amplify the B*35:08:02, B*35:08:05 and B*67:02 alleles, primer mix 6 will amplify the B*15:78:03 allele, primer mix 7 will amplify the B*07:13 and B*07:15 alleles and primer mix 8 will amplify the B*55:30 allele.

⁵Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

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⁶Primer mix 2 may have a tendency of giving rise to unspecific amplifications.

⁷Primer mix 7 may give a lower yield of HLA-specific PCR products than the other HLA-C*14 primer mixes.

⁸Primer mix 10: specific PCR product of 100 bp in the C*14:21N allele. Specific PCR product of 210 bp in the C*14:06 and 14:15 alleles.

⁹Primer mix 12: specific PCR product of 225 bp in the C*14:08 allele. Specific PCR product of 320 bp in the C*14:23 allele.

¹⁰Primer mix 13: specific PCR product of 125 bp in the C*14:14 allele. Specific PCR product of 285 bp in the C*14:10 and the C*04:52 and 04:55 alleles.

¹¹Primer mix 14: specific PCR product of 200 bp in the C*14:15 allele. Specific PCR product of 290 bp in the C*14:11 allele.

¹²Primer mix 17: specific PCR product of 150 bp in the C*14:22 and 14:27 alleles. Specific PCR product of 210 bp in the C*14:16 and the C*02:17 alleles.

¹³Primer mix 18: specific PCR product of 90 bp in the C*14:26 allele. Specific PCR product of 185 bp in the C*14:17 allele.

¹⁴Primer mix 19: specific PCR product of 85 bp in the C*14:18 allele. Specific PCR product of 185 bp in the C*14:29 allele.

¹⁵Primer mix 20: specific PCR product of 105 bp in the C*14:19 and the C*03:88 alleles. Specific PCR product of 140 bp in the C*14:28 and 14:35N alleles.

¹⁶Primer mix 21: specific PCR product of 125 bp in the C*14:32 allele. Specific PCR product of 230 bp in the C*14:20 allele.

¹⁷Primer mix 22: specific PCR product of 95 bp in the C*14:24 allele. Specific PCR product of 250 bp in the C*14:31 allele.

¹⁸Primer mix 23: specific PCR product of 125 bp in the C*14:32 allele. Specific PCR product of 230 bp in the C*14:25 and the C*02:17 alleles.

'w', may be weakly amplified.

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Lot-specific information

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INTERPRETATION TABLE												
HLA-C*14 SSP subtyping												
Amplification patterns of the HLA-C*14:02 to 14:37 alleles												
	Well ⁸											
	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	145	145	245	140	210	130	130	210	140	100	205	225
PCR product(s)										210		320
Length of int.	800	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	1070
pos. control ¹												
5'-primer ²	98	98	98	201	368	368	201	134	361	368	419	356
	5'-CTC ^{3'}	5'-CTC ^{3'}	5'-CTC ^{3'}	5'-CCA ^{3'}	5'-gTT ^{3'}	5'-gTA ^{3'}	5'-CCg ^{3'}	5'-CCA ^{3'}	5'-AgT ^{3'}	5'-gTT ^{3'}	5'-gTC ^{3'}	5'-CCC ^{3'}
												3rd I
												5'-Cgg ^{3'}
3'-primer(s) ³	201	201	302	302	538	459	289	302	459	426	585	538
	5'-CTC ^{3'}	5'-CTT ^{3'}	5'-ggT ^{3'}	5'-ggC ^{3'}	5'-CCg ^{3'}	5'-AgA ^{3'}	5'-AgC ^{3'}	5'-ggC ^{3'}	5'-AgA ^{3'}	5'-TCT ^{3'}	5'-AgT ^{3'}	5'-CCg ^{3'}
	205						289			539		872
	5'-CCT ^{3'}						5'-AgC ^{3'}			5'-TCA ^{3'}		5'-CCA ^{3'}
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
HLA-C allele ^{4,5}												
*14:02:01, 14:02:04-14:02:10, 14:30, 14:36-14:37	1				5				9			
*14:02:02	1				5							
*14:02:03		2		4	5				9			
*14:03		2		4	5			8	9			
*14:04	1		3		5		7		9			
*14:05	1					6			9			
*14:06	1								9	10		
*14:07N	1				5				9		11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

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Lot No.: **54N**

Lot-specific information

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INTERPRETATION TABLE												
HLA-C*14 SSP subtyping												
Amplification patterns of the HLA-C*14:02 to 14:37 alleles												
Well ⁸												
13	14	15	16	17	18	19	20	21	22	23	24	
125	200	150	410	150	90	85	105	125	95	125	145	Length of spec. PCR product(s)
285	290			210	185	185	140	230	250	230		
1070	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	Length of int. pos. control ¹
98	368	201	341	98	368	98	361	368	406	368	92	5'-primer ²
5'-CTC ^{3'}	5'-gTT ^{3'}	5'-CCg ^{3'}	5'-ggA ^{3'}	5'-CTC ^{3'}	5'-gTT ^{3'}	5'-CTC ^{3'}	5'-AgC ^{3'}	5'-gTT ^{3'}	5'-gCC ^{3'}	5'-gTT ^{3'}	5'-gTg ^{3'}	
				368		368	363		637		101	
				5'-gTT ^{3'}		5'-gTT ^{3'}	5'-TgA ^{3'}		5'-ACC ^{3'}		5'-CAT ^{3'}	
							395					
							5'-gCA ^{3'}					
180	527	312	459	205	419	142	459	454	459	454	201	3'-primer(s) ³
5'-TCC ^{3'}	5'-CCg ^{3'}	5'-AgT ^{3'}	5'-AgA ^{3'}	5'-CCT ^{3'}	5'-CgA ^{3'}	5'-TgA ^{3'}	5'-AgA ^{3'}	5'-CTg ^{3'}	5'-AgA ^{3'}	5'-CTg ^{3'}	5'-CTC ^{3'}	
343	619			538	512	511		559	846	559		
5'-T ^{3'}	5'-TTT ^{3'}			5'-CCA ^{3'}	5'-CCA ^{3'}	5'-CCg ^{3'}		5'-Cag ^{3'}	5'-CAC ^{3'}	5'-CTC ^{3'}		
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												HLA-C allele ^{4,5}
												*14:02:01, 14:02:04-14:02:10, 14:30, 14:36-14:37
												*14:02:02
												*14:02:03
												*14:03
												*14:04
												*14:05
												*14:06
												*14:07N
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
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Length of spec.	145	145	245	140	210	130	130	210	140	100	205	225
PCR product(s)										210		320
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*14:08		2		4					9			12
*14:09	1					6						
*14:10		2		4	5			8	9			
*14:11	1				5				9			
*14:12	1		3		5				9			
*14:13	1				5				9			
*14:14	1				5				9			
*14:15	1								9	10		
*14:16	1								9			
*14:17	1				5							
*14:18, 14:29 ⁶	1				5				9			
*14:19	1				5				9			
*14:20	1				5				9			
*14:21N	1				5				9	10		
*14:22	1			4	5			8	9			
*14:23	1				5				9			12
*14:24, 14:31 ⁷	1				5				9			
*14:25	1				5				9			
*14:26	1				5				9			
*14:27	1				5				9			
*14:28	1											
*14:32	1				5				9			
*14:33	1				5				9			
*14:34					5				9			
*14:35N		2		4				8	9			
*01:14, 02:02:13, 05:01:12, 06:44, 06:61, 15:02:10												
*01:17, 01:23, 06:11, 07:01:01- 07:02:07, 07:02:10-07:02:28, 07:02:30-07:06, 07:08, 07:10- 07:19, 07:22-07:33N, 07:35- 07:38:02, 07:41-07:63, 07:65- 07:68, 07:70-07:71, 07:73-07:75, 07:77-07:95, 07:97-07:126, 07:128-07:151, 07:153-07:155, 07:157-07:176, 07:178-07:209, 07:211-07:222, 07:224-07:235, 12:03:04, 12:03:09, B*07:13, B*07:15								7				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

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Lot No.: 54N				Lot-specific information								www.olerup-ssp.com	
125	200	150	410	150	90	85	105	125	95	125	145	Length of spec. PCR product(s)	
285	290			210	185	185	140	230	250	230		Well No.	
13	14	15	16	17	18	19	20	21	22	23	24		
													*14:08
													*14:09
13													*14:10
	14												*14:11
		15											*14:12
			16										*14:13
13													*14:14
	14												*14:15
				17									*14:16
					18								*14:17
						19							*14:18, 14:29 ⁶
							20						*14:19
								21					*14:20
													*14:21N
				17									*14:22
													*14:23
									22				*14:24, 14:31 ⁷
										23			*14:25
					18								*14:26
				17									*14:27
							20						*14:28
								21		23			*14:32
											24		*14:33
											24		*14:34
							20						*14:35N
		15										*01:14, 02:02:13, 05:01:12, 06:44, 06:61, 15:02:10	
												*01:17, 01:23, 06:11, 07:01:01- 07:02:07, 07:02:10-07:02:28, 07:02:30-07:06, 07:08, 07:10- 07:19, 07:22-07:33N, 07:35- 07:38:02, 07:41-07:63, 07:65- 07:68, 07:70-07:71, 07:73-07:75, 07:77-07:95, 07:97-07:126, 07:128-07:151, 07:153-07:155, 07:157-07:176, 07:178-07:209, 07:211-07:222, 07:224-07:235, 12:03:04, 12:03:09, <i>B</i> *07:13, <i>B</i> *07:15	
13	14	15	16	17	18	19	20	21	22	23	24	Well No.	



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Lot No.: **54N**

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Length of spec.	145	145	245	140	210	130	130	210	140	100	205	225
PCR product(s)										210		320
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*01:21, 07:02:09, 08:01:01- 08:02:06, 08:03:01-08:09, 08:11- 08:33:01, 08:34-08:60, 12:02:01- 12:03:03, 12:03:05-12:03:08, 12:03:10-12:03:19, 12:06-12:08, 12:10:01-12:20, 12:22-12:26, 12:28-12:32, 12:34-12:40, 12:42Q-12:53, 12:56-12:59, 12:61-12:71, 12:73-12:76, 16:01:01, 16:01:03-16:01:05, 16:01:07, 16:04, 16:06-16:08, 16:10-16:11, 16:13-16:18, 16:20- 16:24, 16:26-16:33, 16:35-16:36, 16:38-16:45, <i>B*35:08:02</i> , <i>B*35:08:05</i> , <i>B*67:02</i>				4								
*01:48, 03:02:08, 03:05, 03:14, 03:25, 03:40:02, 03:43:02, 03:58, 03:86-03:87, 03:89-03:90, 03:94, 03:102-03:103, 03:119, 03:122, 03:128, 03:135, 03:143, 15:43, <i>B*55:30</i>								8				
*02:12, 15:21				w				w				
*02:17												
*02:27:01-02:27:02, 15:07, 15:25, 16:34				4				8				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
 101.625-06u – without *Taq* polymerase, IFU-02 Rev. No. 03

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

Lot No.: **54N**

Lot-specific information

www.olerup-ssp.com

125	200	150	410	150	90	85	105	125	95	125	145	Length of spec.
285	290			210	185	185	140	230	250	230		PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												*01:21, 07:02:09, 08:01:01-08:02:06, 08:03:01-08:09, 08:11-08:33:01, 08:34-08:60, 12:02:01-12:03:03, 12:03:05-12:03:08, 12:03:10-12:03:19, 12:06-12:08, 12:10:01-12:20, 12:22-12:26, 12:28-12:32, 12:34-12:40, 12:42Q-12:53, 12:56-12:59, 12:61-12:71, 12:73-12:76, 16:01:01, 16:01:03-16:01:05, 16:01:07, 16:04, 16:06-16:08, 16:10-16:11, 16:13-16:18, 16:20-16:24, 16:26-16:33, 16:35-16:36, 16:38-16:45, <i>B*35:08:02</i> , <i>B*35:08:05</i> , <i>B*67:02</i>
												*01:48, 03:02:08, 03:05, 03:14, 03:25, 03:40:02, 03:43:02, 03:58, 03:86-03:87, 03:89-03:90, 03:94, 03:102-03:103, 03:119, 03:122, 03:128, 03:135, 03:143, 15:43, <i>B*55:30</i>
												*02:12, 15:21
				17						23		*02:17
												*02:27:01-02:27:02, 15:07, 15:25, 16:34
13	14	15	16	17	18	19	20	21	22	23	24	Well No.



101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
 101.625-06u – without *Taq* polymerase, IFU-02 Rev. No. 03

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Lot No.: **54N**

Lot-specific information

www.olerup-ssp.com

Length of spec.	145	145	245	140	210	130	130	210	140	100	205	225
PCR product(s)										210		320
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*03:02:01-03:02:07, 03:02:09-03:03:14, 03:03:16-03:04:16, 03:04:18-03:04:24, 03:04:26, 03:06, 03:08-03:09, 03:12-03:13, 03:16, 03:19-03:24, 03:26, 03:28, 03:30-03:31, 03:33-03:36, 03:40:01, 03:41-03:43:01, 03:44, 03:46-03:49, 03:51-03:57, 03:59, 03:61-03:63, 03:65-03:68, 03:70, 03:72-03:85, 03:91-03:93, 03:95-03:98, 03:100-03:101, 03:104-03:106, 03:108-03:114, 03:116-03:118, 03:120-03:121N, 03:123-03:127, 03:129, 03:131-03:133, 03:137-03:139, 03:141-03:142, 03:144-03:146						6		8				
*03:03:15						6		w				
*03:04:17, 03:11:01-03:11:02, 03:18, 03:37, 03:39, 03:50, 03:64, 03:107, 03:115, 03:134, 03:140, B*15:78:03						6						
*03:04:25				4		6		8				
*03:07						6						
*03:10, 03:29						6		w				
*03:15						6	7					
*03:17, 03:71						6		8	9			
*03:27, 07:20, 07:96, 07:127							7	8				
*03:32, 03:60						6		8				
*03:38:01-03:38:02, 03:69						6	7	8				
*03:45						6						
*03:88						6		8				
*03:130						6	7					
*03:136						6	7	8				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
 101.625-06u – without *Taq* polymerase, IFU-02 Rev. No. 03

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

Lot No.: **54N**

Lot-specific information

www.olerup-ssp.com

125	200	150	410	150	90	85	105	125	95	125	145	Length of spec.
285	290			210	185	185	140	230	250	230		PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												*03:02:01-03:02:07, 03:02:09-03:03:14, 03:03:16-03:04:16, 03:04:18-03:04:24, 03:04:26, 03:06, 03:08-03:09, 03:12-03:13, 03:16, 03:19-03:24, 03:26, 03:28, 03:30-03:31, 03:33-03:36, 03:40:01, 03:41-03:43:01, 03:44, 03:46-03:49, 03:51-03:57, 03:59, 03:61-03:63, 03:65-03:68, 03:70, 03:72-03:85, 03:91-03:93, 03:95-03:98, 03:100-03:101, 03:104-03:106, 03:108-03:114, 03:116-03:118, 03:120-03:121N, 03:123-03:127, 03:129, 03:131-03:133, 03:137-03:139, 03:141-03:142, 03:144-03:146
												*03:03:15
												*03:04:17, 03:11:01-03:11:02, 03:18, 03:37, 03:39, 03:50, 03:64, 03:107, 03:115, 03:134, 03:140, B*15:78:03
												*03:04:25
		15										*03:07
		15										*03:10, 03:29
		15	16									*03:15
												*03:17, 03:71
												*03:27, 07:20, 07:96, 07:127
			16									*03:32, 03:60
												*03:38:01-03:38:02, 03:69
		15	16									*03:45
							20					*03:88
												*03:130
			16									*03:136
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
 101.625-06u – without *Taq* polymerase, IFU-02 Rev. No. 03

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 “Instructions for Use” (IFU)

Lot No.: **54N**

Lot-specific information

www.olerup-ssp.com

Length of spec.	145	145	245	140	210	130	130	210	140	100	205	225
PCR product(s)										210		320
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*04:01:01:01-04:01:04, 04:01:06, 04:01:08, 04:01:10-04:01:22, 04:01:24-04:01:28, 04:01:30-04:01:32, 04:01:34-04:01:37, 04:04:01, 04:05, 04:07-04:10, 04:12-04:14, 04:18-04:20, 04:23-04:25, 04:27-04:28, 04:30-04:32, 04:34-04:35, 04:38-04:41, 04:43-04:51, 04:53-04:54, 04:57-04:70, 04:72-04:79, 04:81-04:89, 04:91-04:94:01, 04:95N-04:97, 04:99, 04:101-04:102, 04:104-04:106, 04:108-04:112		2	3									
*04:01:05, 04:01:07, 04:01:09, 04:01:33, 04:04:02, 04:33, 04:94:02, 04:98, 15:36		2	3									
*04:01:23			3				7					
*04:01:29		2										
*04:03, 04:06, 04:16, 04:42, 04:71, 04:103												
*04:11, 12:55		2		4								
*04:15:01-04:15:03, 04:17, 04:100		2	3			6						
*04:26, 04:90		w	w									
*04:29, 04:36		2		4								
*04:37		2	3						9			
*04:52		2	3									
*04:55		2		4								
*04:56			3									
*04:80						6						
*06:02:01:01-06:02:01:02, 06:02:03-06:02:07, 06:02:09-06:04, 06:06-06:10, 06:12-06:43, 06:45-06:60, 06:62-06:76, 07:07, 07:09, 07:76, 12:04:01, 17:01:01:01-17:01:03, 17:01:05-17:11							7					
*06:02:08						6	7		9			
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
 101.625-06u – without *Taq* polymerase, IFU-02 Rev. No. 03

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

Lot No.: **54N**

Lot-specific information

www.olerup-ssp.com

125	200	150	410	150	90	85	105	125	95	125	145	Length of spec.
285	290			210	185	185	140	230	250	230		PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
			16									*04:01:01:01-04:01:04, 04:01:06, 04:01:08, 04:01:10-04:01:22, 04:01:24-04:01:28, 04:01:30-04:01:32, 04:01:34-04:01:37, 04:04:01, 04:05, 04:07-04:10, 04:12-04:14, 04:18-04:20, 04:23-04:25, 04:27-04:28, 04:30-04:32, 04:34-04:35, 04:38-04:41, 04:43-04:51, 04:53-04:54, 04:57-04:70, 04:72-04:79, 04:81-04:89, 04:91-04:94:01, 04:95N-04:97, 04:99, 04:101-04:102, 04:104-04:106, 04:108-04:112
												*04:01:05, 04:01:07, 04:01:09, 04:01:33, 04:04:02, 04:33, 04:94:02, 04:98, 15:36
		15	16									*04:01:23
			16									*04:01:29
			16									*04:03, 04:06, 04:16, 04:42, 04:71, 04:103
												*04:11, 12:55
			16									*04:15:01-04:15:03, 04:17, 04:100
			16									*04:26, 04:90
			16									*04:29, 04:36
			16									*04:37
13			16									*04:52
13												*04:55
			16									*04:56
			16									*04:80
		15										*06:02:01:01-06:02:01:02, 06:02:03-06:02:07, 06:02:09-06:04, 06:06-06:10, 06:12-06:43, 06:45-06:60, 06:62-06:76, 07:07, 07:09, 07:76, 12:04:01, 17:01:01:01-17:01:03, 17:01:05-17:11
		15	16									*06:02:08
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
 101.625-06u – without *Taq* polymerase, IFU-02 Rev. No. 03

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

Lot No.: **54N**

Lot-specific information

www.olerup-ssp.com

Length of spec.	145	145	245	140	210	130	130	210	140	100	205	225
PCR product(s)										210		320
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*07:64	1						7					
*07:223							w					
*08:02:07, 08:33:02				4		6						
*12:03:20, 16:01:06				4		6			9			
*12:72, 16:37				w								
*18:01-18:05							7					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

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-C*14 SSP subtyping.

In addition, wells number 3 and 15 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

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 HLA-Cw*1401 nucleotide sequence has been shown to be identical to C*14:02:01.

⁵HLA-C*14 alleles in bold lettering are listed as confirmed alleles on the IMGT/HLA web page www.ebi.ac.uk/imgt/hla, release 3.8.0, April 2012.

⁶The C*14:18 and 14:29 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 19.

⁷The C*14:24 and 14:31 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 22.

101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
 101.625-06u – without *Taq* polymerase, IFU-02 Rev. No. 03

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 “Instructions for Use” (IFU)

Lot No.: **54N**

Lot-specific information

www.olerup-ssp.com

125	200	150	410	150	90	85	105	125	95	125	145	Length of spec.
285	290			210	185	185	140	230	250	230		PCR product(s)
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												*07:64
												*07:223
												*08:02:07, 08:33:02
												*12:03:20, 16:01:06
												*12:72, 16:37
		15	16									*18:01-18:05
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

⁸Primer mix 10: specific PCR product of 100 bp in the C*14:21N allele. Specific PCR product of 210 bp in the C*14:06 and 14:15 alleles.

Primer mix 12: specific PCR product of 225 bp in the C*14:08 allele. Specific PCR product of 320 bp in the C*14:23 allele.

Primer mix 13: specific PCR product of 125 bp in the C*14:14 allele. Specific PCR product of 285 bp in the C*14:10 and the C*04:52 and 04:55 alleles.

Primer mix 14: specific PCR product of 200 bp in the C*14:15 allele. Specific PCR product of 290 bp in the C*14:11 allele.

Primer mix 17: specific PCR product of 150 bp in the C*14:22 and 14:27 alleles. Specific PCR product of 210 bp in the C*14:16 and the C*02:17 alleles.

Primer mix 18: specific PCR product of 90 bp in the C*14:26 allele. Specific PCR product of 185 bp in the C*14:17 allele.

Primer mix 19: specific PCR product of 85 bp in the C*14:18 allele. Specific PCR product of 185 bp in the C*14:29 allele.

Primer mix 20: specific PCR product of 105 bp in the C*14:19 and the C*03:88 alleles. Specific PCR product of 140 bp in the C*14:28 and 14:35N alleles.

Primer mix 21: specific PCR product of 125 bp in the C*14:32 allele. Specific PCR product of 230 bp in the C*14:20 allele.

Primer mix 22: specific PCR product of 95 bp in the C*14:24 allele. Specific PCR product of 250 bp in the C*14:31 allele.

Primer mix 23: specific PCR product of 125 bp in the C*14:32 allele. Specific PCR product of 230 bp in the C*14:25 and the C*02:17 alleles.

'w', may be weakly amplified.

101.625-06 – including **Taq** polymerase, IFU-01 Rev. No. 03
 101.625-06u – without **Taq** polymerase, IFU-02 Rev. No. 03

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Lot No.: **54N**

Lot-specific information

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CELL LINE VALIDATION SHEET																				
HLA-C*14 SSP primer set																				
				Prod. No.:	Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	IHWC cell line		C*		201299101	201183702	200853503	200965804	200965805	200853506	201183707	200853508	200853509	201183710	200853511	201183712	201183713	201183714	200965815	200965816
1	9001 SA	*07:02			-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01		-	+	+	-	-	+	-	+	-	-	-	-	-	-	-	+
5	9009 KAS011	*06:02			-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
6	9353 SM	*03:04	*07:02		-	-	-	-	-	+	+	+	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01			-	+	+	-	-	-	+	-	-	-	-	-	-	-	-	+
9	9026 YAR	*12:03			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02			-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
13	9004 JESTHOM	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04			-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01		-	-	-	-	-	+	+	+	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01			-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04			-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03			-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01			-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01			-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
31	9019 DUCAF	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03		-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
33	9098 MT14B	*03:04			-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01		-	+	+	-	-	+	-	+	-	-	-	-	-	-	-	+
37	9065 HHKB	*07:02			-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03			-	-	-	-	-	+	-	+	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02		-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
41	9055 H0301	*08:02			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
46	9013 SCHU	*07:02			-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01		-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	+



101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
 101.625-06u – without *Taq* polymerase, IFU-02 Rev. No. 03

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Lot No.: **54N**

Lot-specific information

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CELL LINE VALIDATION SHEET												
HLA-C*14 SSP primer set												
				Well								
				17	18	19	20	21	22	23	24	
				Prod. No.:	201183717	201183718	201183719	201299120	201299121	201299122	201299123	201299124
IHWC cell line			C*									
1	9001	SA	*07:02	-	-	-	-	-	-	-	-	-
2	9280	LK707	*07:01	*15:05	-	-	-	-	-	-	-	-
3	9011	E4181324	*12:02		-	-	-	-	-	-	-	-
4	9275	GU373	*03:04	*04:01	-	-	-	-	-	-	-	-
5	9009	KAS011	*06:02		-	-	-	-	-	-	-	-
6	9353	SM	*03:04	*07:02	-	-	-	-	-	-	-	-
7	9020	QBL	*05:01		-	-	-	-	-	-	-	-
8	9025	DEU	*04:01		-	-	-	-	-	-	-	-
9	9026	YAR	*12:03		-	-	-	-	-	-	-	-
10	9107	LKT3	*01:02		-	-	-	-	-	-	-	-
11	9051	PITOUT	*16:01		-	-	-	-	-	-	-	-
12	9052	DBB	*06:02		-	-	-	-	-	-	-	-
13	9004	JESTHOM	*01:02		-	-	-	-	-	-	-	-
14	9071	OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-
15	9075	DKB	*03:04		-	-	-	-	-	-	-	-
16	9037	SWEIG007	*02:02		-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-
18	9257	32367	*01:02	*07:05	-	-	-	-	-	-	-	-
19	9038	BM16	*07:01		-	-	-	-	-	-	-	-
20	9059	SLE005	*03:04		-	-	-	-	-	-	-	-
21	9064	AMALA	*03:03		-	-	-	-	-	-	-	-
22	9056	KOSE	*12:03		-	-	-	-	-	-	-	-
23	9124	IHL	*01:02	*15:02	-	-	-	-	-	-	-	-
24	9035	JBUSH	*12:03		-	-	-	-	-	-	-	-
25	9049	IBW9	*08:02		-	-	-	-	-	-	-	-
26	9285	WT49	*07:01		-	-	-	-	-	-	-	-
27	9191	CH1007	*07:04	*15:05	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-
29	9050	MOU	*16:01		-	-	-	-	-	-	-	-
30	9021	RSH	*17:01		-	-	-	-	-	-	-	-
31	9019	DUCAF	*05:01		-	-	-	-	-	-	-	-
32	9297	HAG	*17:01	*17:03	-	-	-	-	-	-	-	-
33	9098	MT14B	*03:04		-	-	-	-	-	-	-	-
34	9104	DHIF	*12:03		-	-	-	-	-	-	-	-
35	9302	SSTO	*05:01		-	-	-	-	-	-	-	-
36	9024	KT17	*03:03	*04:01	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02		-	-	-	-	-	-	-	-
38	9099	LZL	*03:03		-	-	-	-	-	-	-	-
39	9315	CML	*02:02	*07:01	-	-	-	-	-	-	-	-
40	9134	WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-
41	9055	H0301	*08:02		-	-	-	-	-	-	-	-
42	9066	TAB089	*01:02		-	-	-	-	-	-	-	-
43	9076	T7526	*01:02	*08:01	-	-	-	-	-	-	-	-
44	9057	TEM	*12:03		-	-	-	-	-	-	-	-
45	9239	SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		-	-	-	-	-	-	-	-
47	9045	TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-
48	9303	TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-



101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
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Lot No.: **54N**

Lot-specific information

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CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-C*14 SSP

Product number: 101.625-06 – including *Taq* polymerase
 101.625-06u – without *Taq* polymerase
Lot number: 54N
Expiry date: 2014-November-01
Number of tests: 6
Number of wells per test: 24

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2012-991-01	9	2008-535-09	17	2011-837-17
2	2011-837-02	10	2011-837-10	18	2011-837-18
3	2008-535-03	11	2008-535-11	19	2011-837-19
4	2009-658-04	12	2011-837-12	20	2012-991-20
5	2009-658-05	13	2011-837-13	21	2012-991-21
6	2008-535-06	14	2011-837-14	22	2012-991-22
7	2011-837-07	15	2009-658-15	23	2012-991-23
8	2008-535-08	16	2009-658-16	24	2012-991-24

The specificity of each primer solution of the HLA-C*14 primer set has been tested against 48 well characterized IHWC cell line DNAs.

No DNAs carrying the alleles to be amplified by primer mixes 10 to 14 and 17 to 24 were available. The specificities of the primers in primer solutions 10, 12 to 14, 17 to 19, 21 and 23 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solution 11, it was only possible to test the 5'-primer, the 3'-primer was not possible to test. In primer solutions 20, 22 and 24 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 1, 10, 12 to 14, 17, 19, 21 and 23 one of the 3'-primers was not possible to test, and in primer solution 12 one of the 5'-primers was not possible to test. Finally, one additional 5'-primer in primer solution 6 was tested by adding one additional 3'-primer.

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

Date of approval: 2012-May-25

Approved by:

Production Quality Control

101.625-06 – including *Taq* polymerase, IFU-01 Rev. No. 03
101.625-06u – without *Taq* polymerase, IFU-02 Rev. No. 03

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Lot No.: **54N**

Lot-specific information

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Declaration of Conformity

Product name: *Olerup* SSP® HLA-C*14

Product number: 101.625-06/06u

Lot number: 54N

Intended use: HLA-C*14 high resolution histocompatibility testing

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

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

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

The Authorized Representative located within the Community is: *Olerup* SSP AB.

Stockholm, Sweden
2012-May-25

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

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