

## **Olerup SSP<sup>®</sup> HLA-A\*30**

Product number:	101.429-12 – including <i>Taq</i> polymerase
Lot number:	51M
Expiry date:	2014-February-01
Number of tests:	12
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. 51M.**

### **CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP<sup>®</sup>* HLA-A\*30 Lot**

The HLA-A\*30 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP<sup>®</sup>* HLA-A\*30 lot was made (Lot No. 02H).

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

Well	5'-primer	3'-primer	rationale
12	-	Added	3'-primer added for the A*30:35 allele.
22	-	Added	3'-primer added for the A*30:36 allele.
24	Added	Added	Primer pair added for the A*30:37 allele, exchanged positive control primer pair.

## PRODUCT DESCRIPTION

### HLA-A\*30 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the A\*30:01 to A\*30:37 alleles.

#### PLATE LAYOUT

Each 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-A\*30' in silver/gray ink.

Well No. 1 is marked with '51M'.

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

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

**Please note:** When removing each 24 well PCR plate, make sure that the remaining plates stay covered. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

#### INTERPRETATION

The interpretation of HLA-A\*30 SSP subtypings will be influenced by three A\*01, two A\*02, three A\*03, the A\*23:09, four A\*24, two A\*26, the A\*29:14, most A\*31, the A\*32:07, two A\*68 and the A\*80 alleles when present on the other haplotype.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-A\*30 alleles, i.e. **A\*30:01 to A\*30:37 alleles**, recognized by the HLA Nomenclature Committee in April 2010<sup>1</sup> will give rise to unique amplification patterns by the primers in the HLA-A\*30 subtyping kit.

The HLA-A\*30 kit cannot distinguish the A\*30:01:01 to A\*30:01:03 alleles, the A\*30:02:01 to A\*30:02:04 or the A\*30:11:01 and A\*30:11:02 alleles.

<sup>1</sup>HLA-A alleles listed on the IMGT/HLA web page 2010-April-01, release 3.0.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

### RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 63 alleles generate 35 amplification patterns that can be combined in 630 homozygous and heterozygous combinations. 305 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.

++++-----	+++-----	+-----	*30:03, *30:18 = *30:11:01, *30:12
++++-----	+--+++--	+-----	*30:03, *30:16 = *30:11:01, *30:13
++++-----	+--++++	+-----	*30:03, *30:15 = *30:11:01, *30:33
++++-----	+--+++--	++-----	*30:03, *30:20 = *30:11:01, *30:32
++++-----	+--+++--	+--+-----	*30:03, *30:23 = *30:11:01, *30:34
++++-----	+--+++--	+--+-----	*30:03, *30:24 = *30:03, *30:30
++++-----	+--+++--	+-----+	*30:03, *30:36 = *30:11:01, *30:27N
++++-----	+--+++--	+-----+	*30:03, *30:37 = *30:11:01, *30:25
++++-----	+--+++--	+-----	*30:01:01, *30:03 = *30:02:01, *30:11:01 = *30:02:05, *30:11:01
+++-+-----	+--+++--	+-----	*30:02:01, *30:19 = *30:02:05, *30:19
++++-----	+--+++--	+--+-----	*30:07, *30:24 = *30:07, *30:30
++++-----+	+--+++--	-----	*30:02:01, *30:08 = *30:02:05, *30:08
+++-----+	+--+++--	+--+-----	*30:10, *30:24 = *30:10, *30:30
++++-----	+++-+-----	+-----	*30:12, *30:16 = *30:13, *30:18
++++-----	+++-+-----+	+-----	*30:12, *30:15 = *30:18, *30:33
++++-----	+++-+-----	++-----	*30:12, *30:20 = *30:18, *30:32
++++-----	+++-+-----	+--+-----	*30:12, *30:23 = *30:18, *30:34
++++-----	+++-+-----	+--+-----	*30:12, *30:24 = *30:12, *30:30
++++-----	+++-+-----	+-----+	*30:12, *30:36 = *30:18, *30:27N
++++-----	+++-+-----	+-----+	*30:12, *30:37 = *30:18, *30:25
++++-----	+++-+-----	+-----	*30:01:01, *30:12 = *30:02:01, *30:18 = *30:02:05, *30:18
+++-----	+--+++--	+-----	*30:02:01, *30:35 = *30:02:05, *30:35
++++-----	+--++++	+-----	*30:13, *30:15 = *30:16, *30:33
++++-----	+--+++--	++-----	*30:13, *30:20 = *30:16, *30:32
++++-----	+--+++--	+--+-----	*30:13, *30:31 = *30:16, *30:22
++++-----	+--+++--	+--+-----	*30:13, *30:23 = *30:16, *30:34
++++-----	+--+++--	+--+-----	*30:13, *30:24 = *30:13, *30:30
++++-----	+--+++--	+-----+	*30:13, *30:36 = *30:16, *30:27N
++++-----	+--+++--	+-----+	*30:13, *30:37 = *30:16, *30:25
++++-----	+--+++--	+-----	*30:01:01, *30:13 = *30:02:01, *30:16 = *30:02:05, *30:16 = *30:13, *30:16
++++-----	+--++++	+-----	*30:02:01, *30:14L = *30:02:05, *30:14L
++++-----	+--++++	++-----	*30:15, *30:32 = *30:20, *30:33
++++-----	+--++++	+--+-----	*30:15, *30:22 = *30:31, *30:33
++++-----	+--++++	+--+-----	*30:15, *30:34 = *30:23, *30:33
++++-----	+--++++	+--+-----	*30:24, *30:33 = *30:30, *30:33
++++-----	+--++++	+-----+	*30:15, *30:27N = *30:33, *30:36
++++-----	+--++++	+-----+	*30:15, *30:25 = *30:33, *30:37
++++-----	+--++++	+-----	*30:01:01, *30:33 = *30:02:01, *30:15 = *30:02:05, *30:15 = *30:15, *30:33
++++-----	+--+++--	+++-----	*30:20, *30:22 = *30:31, *30:32

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+++-----	+--+-----	+--+-----	*30:20, *30:34 = *30:23, *30:32
+++-----	+--+-----	+--+-----	*30:24, *30:32 = *30:30, *30:32
+++-----	+--+-----	+--+-----	*30:20, *30:27N = *30:32, *30:36
+++-----	+--+-----	+--+-----	*30:20, *30:25 = *30:32, *30:37
+++-----	+--+-----	+--+-----	*30:01:01, *30:32 = *30:02:01, *30:20 = *30:02:05, *30:20 = *30:20, *30:32
+++-----	+--+-----	+--+-----	*30:22, *30:23 = *30:31, *30:34
+++-----	+--+-----	+--+-----	*30:22, *30:24 = *30:22, *30:30
+++-----	+--+-----	+--+-----	*30:22, *30:36 = *30:27N, *30:31
+++-----	+--+-----	+--+-----	*30:22, *30:37 = *30:25, *30:31
+++-----	+--+-----	+--+-----	*30:01:01, *30:22 = *30:02:01, *30:31 = *30:02:05, *30:31
+++-----	+--+-----	+--+-----	*30:24, *30:34 = *30:30, *30:34
+++-----	+--+-----	+--+-----	*30:23, *30:27N = *30:34, *30:36
+++-----	+--+-----	+--+-----	*30:23, *30:25 = *30:34, *30:37
+++-----	+--+-----	+--+-----	*30:01:01, *30:34 = *30:02:01, *30:23 = *30:02:05, *30:23 = *30:23, *30:34
+++-----	+--+-----	+--+-----	*30:24, *30:27N = *30:27N, *30:30
+++-----	+--+-----	+--+-----	*30:24, *30:25 = *30:25, *30:30
+++-----	+--+-----	+--+-----	*30:02:01, *30:24 = *30:02:01, *30:30 = *30:02:05, *30:24
+++-----	+--+-----	+--+-----	*30:25, *30:36 = *30:27N, *30:37
+++-----	+--+-----	+--+-----	*30:01:01, *30:27N = *30:02:01, *30:36 = *30:02:05, *30:36 = *30:27N, *30:36
+++-----	+--+-----	+--+-----	*30:01:01, *30:25 = *30:02:01, *30:37 = *30:02:05, *30:37 = *30:25, *30:37
+++-----	+--+-----	+--+-----	*30:01:01, *30:02:01 = *30:01:01, *30:02:05
+++-----	+--+-----	+--+-----	*30:11:01, *30:17 = *30:11:01, *30:19
+++-----	+--+-----	+--+-----	*30:09, *30:11:01 = *30:11:01, *30:35
+++-----	+--+-----	+--+-----	*30:11:01, *30:24 = *30:11:01, *30:30
+++-----	+--+-----	+--+-----	*30:01:01, *30:06 = *30:06, *30:19
+++-----	+--+-----	+--+-----	*30:08, *30:17 = *30:08, *30:19 = *30:19, *30:28
+++-----	+--+-----	+--+-----	*30:17, *30:18 = *30:18, *30:19
+++-----	+--+-----	+--+-----	*30:09, *30:19 = *30:17, *30:35 = *30:19, *30:35
+++-----	+--+-----	+--+-----	*30:16, *30:17 = *30:16, *30:19
+++-----	+--+-----	+--+-----	*30:01:01, *30:29 = *30:14L, *30:17 = *30:14L, *30:19 = *30:14L, *30:29 = *30:19, *30:29
+++-----	+--+-----	+--+-----	*30:15, *30:17 = *30:15, *30:19
+++-----	+--+-----	+--+-----	*30:17, *30:20 = *30:19, *30:20
+++-----	+--+-----	+--+-----	*30:17, *30:31 = *30:19, *30:31
+++-----	+--+-----	+--+-----	*30:17, *30:23 = *30:19, *30:23
+++-----	+--+-----	+--+-----	*30:17, *30:24 = *30:19, *30:24 = *30:19, *30:30
+++-----	+--+-----	+--+-----	*30:17, *30:36 = *30:19, *30:36
+++-----	+--+-----	+--+-----	*30:17, *30:37 = *30:19, *30:37
+++-----	+--+-----	+--+-----	*30:01:01, *30:17 = *30:01:01, *30:19 = *30:17, *30:19 = *30:19, *30:19
+++-----	+--+-----	+--+-----	*30:08, *30:18 = *30:18, *30:28
+++-----	+--+-----	+--+-----	*30:08, *30:35 = *30:28, *30:35
+++-----	+--+-----	+--+-----	*30:08, *30:16 = *30:16, *30:28
+++-----	+--+-----	+--+-----	*30:08, *30:14L = *30:14L, *30:28

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++-----+ +--+-----+ +-----	*30:08, *30:15 = *30:15, *30:28
++-----+ +--+-----+ +-----	*30:08, *30:20 = *30:20, *30:28
++-----+ +--+-----+ +-----	*30:08, *30:23 = *30:23, *30:28
++-----+ +--+-----+ +-----	*30:08, *30:24 = *30:08, *30:30 = *30:24, *30:28 = *30:28, *30:30
++-----+ +--+-----+ +-----	*30:08, *30:36 = *30:28, *30:36
++-----+ +--+-----+ +-----	*30:08, *30:26 = *30:26, *30:28
++-----+ +--+-----+ +-----	*30:08, *30:37 = *30:28, *30:37
++-----+ +--+-----+ +-----	*30:01:01, *30:08 = *30:01:01, *30:28
++-----+ +--+-----+ +-----	*30:09, *30:18 = *30:18, *30:35
++-----+ +--+-----+ +-----	*30:18, *30:24 = *30:18, *30:30
++-----+ +--+-----+ +-----	*30:09, *30:16 = *30:16, *30:35
++-----+ +--+-----+ +-----	*30:09, *30:14L = *30:14L, *30:35
++-----+ +--+-----+ +-----	*30:09, *30:15 = *30:15, *30:35
++-----+ +--+-----+ +-----	*30:09, *30:20 = *30:20, *30:35
++-----+ +--+-----+ +-----	*30:09, *30:31 = *30:31, *30:35
++-----+ +--+-----+ +-----	*30:09, *30:23 = *30:23, *30:35
++-----+ +--+-----+ +-----	*30:09, *30:24 = *30:09, *30:30 = *30:24, *30:35 = *30:30, *30:35
++-----+ +--+-----+ +-----	*30:09, *30:36 = *30:35, *30:36
++-----+ +--+-----+ +-----	*30:09, *30:26 = *30:26, *30:35
++-----+ +--+-----+ +-----	*30:09, *30:37 = *30:35, *30:37
++-----+ +--+-----+ +-----	*30:01:01, *30:09 = *30:01:01, *30:35 = *30:09, *30:35 = *30:35, *30:35
++-----+ +--+-----+ +-----	*30:16, *30:24 = *30:16, *30:30
++-----+ +--+-----+ +-----	*30:01:01, *30:16 = *30:16, *30:16
++-----+ +--+-----+ +-----	*30:14L, *30:24 = *30:14L, *30:30
++-----+ +--+-----+ +-----	*30:01:01, *30:14L = *30:14L, *30:14L
++-----+ +--+-----+ +-----	*30:15, *30:24 = *30:15, *30:30
++-----+ +--+-----+ +-----	*30:01:01, *30:15 = *30:15, *30:15
++-----+ +--+-----+ +-----	*30:20, *30:24 = *30:20, *30:30
++-----+ +--+-----+ +-----	*30:01:01, *30:20 = *30:20, *30:20
++-----+ +--+-----+ +-----	*30:24, *30:31 = *30:30, *30:31
++-----+ +--+-----+ +-----	*30:23, *30:24 = *30:23, *30:30
++-----+ +--+-----+ +-----	*30:01:01, *30:23 = *30:23, *30:23
++-----+ +--+-----+ +-----	*30:24, *30:36 = *30:30, *30:36
++-----+ +--+-----+ +-----	*30:24, *30:37 = *30:30, *30:37
++-----+ +--+-----+ +-----	*30:01:01, *30:24 = *30:01:01, *30:30 = *30:24, *30:24 = *30:24, *30:30
++-----+ +--+-----+ +-----	*30:01:01, *30:36 = *30:36, *30:36
++-----+ +--+-----+ +-----	*30:01:01, *30:37 = *30:37, *30:37
++-----+ +--+-----+ +-----	*30:02:01, *30:03 = *30:02:05, *30:03
++-----+ +--+-----+ +-----	*30:02:01, *30:06 = *30:06, *30:07
++-----+ +--+-----+ +-----	*30:02:01, *30:07 = *30:02:05, *30:07
++-----+ +--+-----+ +-----	*30:02:01, *30:28 = *30:02:05, *30:28
++-----+ +--+-----+ +-----	*30:02:01, *30:10 = *30:02:05, *30:10 = *30:10, *30:10
++-----+ +--+-----+ +-----	*30:02:01, *30:12 = *30:02:05, *30:12
++-----+ +--+-----+ +-----	*30:02:01, *30:09 = *30:02:05, *30:09
++-----+ +--+-----+ +-----	*30:02:01, *30:13 = *30:02:05, *30:13 = *30:13, *30:13
++-----+ +--+-----+ +-----	*30:02:01, *30:33 = *30:02:05, *30:33 = *30:33, *30:33

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+--+-----	+--+-----	-+-----	*30:02:01, *30:32 = *30:02:05, *30:32 = *30:32, *30:32
+--+-----	+--+-----	--+-----	*30:02:01, *30:22 = *30:02:05, *30:22
+--+-----	+--+-----	---+-----	*30:02:01, *30:34 = *30:02:05, *30:34 = *30:34, *30:34
+--+-----	+--+-----	-----+--	*30:02:01, *30:27N = *30:02:05, *30:27N = *30:27N, *30:27N
+--+-----	+--+-----	-----+--	*30:02:01, *30:25 = *30:02:05, *30:25 = *30:25, *30:25
+--+-----	+--+-----	-----+--	*30:02:01, *30:02:01 = *30:02:01, *30:02:05
*30:01:01 = *30:01:01-30:01:03			
*30:02:01 = *30:02:01-30:02:04			
*30:11:01 = *30:11:01-30:11:02			

## SPECIFICITY TABLE

### HLA-A\*30 SSP subtyping

Specificities and sizes of the PCR products of the 24 primer mixes used for HLA-A\*30 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-A*30 alleles	Other amplified HLA-A alleles <sup>3</sup>
<b>1</b>	165 bp	<b>800 bp</b>	*30:01:01-30:02:04, 30:03, 30:07-30:16, 30:18-30:20, 30:22-30:25, 30:27N-30:28, 30:31-30:37	*02:52, 03:43
<b>2</b>	205 bp	<b>800 bp</b>	*30:01:01-30:01:03, 30:08, 30:11:01-30:11:02, 30:14L-30:16, 30:18-30:20, 30:23-30:24, 30:26, 30:30-30:31, 30:35-30:37	
<b>3</b>	210 bp	<b>800 bp</b>	*30:02:01-30:02:04, 30:02:05 <sup>w</sup> , 30:03, 30:07, 30:10, 30:12-30:13, 30:22, 30:25, 30:27N, 30:32-30:34	*80:01 <sup>w</sup> -80:02 <sup>w</sup>
<b>4<sup>5,6</sup></b>	155 bp	1070 bp	*30:03, 30:11:01-30:11:02	*01:02, 01:20
<b>5<sup>7</sup></b>	150 bp, 245 bp	1070 bp	*30:04, 30:06, 30:17, 30:19, 30:29	*02:52, 24:66, 68:06
<b>6<sup>4,8</sup></b>	80 bp, 185 bp	1070 bp	*30:06-30:07	
<b>7</b>	200 bp	1070 bp	*30:08, 30:28	*02:185 <sup>w</sup>
<b>8<sup>4</sup></b>	85 bp	<b>800 bp</b>	*30:10	
<b>9</b>	180 bp	1070 bp	*30:01:01-30:02:05, 30:04, 30:06-30:07, 30:09-30:10, 30:12-30:20, 30:23-30:37	
<b>10</b>	150 bp	1070 bp	*30:12, 30:18	*01:07, 02:185, 26:19, 29:14, 31:01:02-31:01:06, 31:02-31:07, 31:09-31:31

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<b>11</b>	215 bp	<b>800 bp</b>	*30:01:01-30:04, 30:06, 30:09-30:20, 30:23- 30:30, 30:32-30:37	*01:02 <sup>w</sup> , 01:20 <sup>w</sup> , 03:72, 23:09 <sup>w</sup> , 24:24, 24:67, 26:16, 32:07, 68:45
<b>12</b>	195 bp	1070 bp	*30:09, 30:35	*03:42, 31:03- 31:04
<b>13</b>	155 bp	1070 bp	*30:01:01-30:02:05, 30:04, 30:06-30:10, 30:13-30:17, 30:19- 30:20, 30:23-30:37	
<b>14</b>	210 bp	1070 bp	*30:13, 30:16	
<b>15</b>	245 bp	<b>800 bp</b>	*30:14L, 30:29	
<b>16</b>	265 bp	1070 bp	*30:15, 30:33	
<b>17</b>	225 bp	1070 bp	*30:01:01-30:01:03, 30:11:01-30:11:02, 30:14L-30:20, 30:23- 30:24, 30:26, 30:30- 30:31, 30:35-30:37	*03:72, 24:19, 68:45
<b>18<sup>9</sup></b>	130 bp, 210 bp	<b>800 bp</b>	*30:20, 30:32	
<b>19<sup>10</sup></b>	160 bp, 200 bp	1070 bp	*30:22, 30:31	
<b>20<sup>11</sup></b>	210 bp, 275 bp	<b>800 bp</b>	*30:23, 30:34	
<b>21<sup>12</sup></b>	155 bp, 185 bp	1070 bp	*30:24, 30:30	
<b>22<sup>13</sup></b>	170 bp, 215 bp	<b>800 bp</b>	*30:27N, 30:36	
<b>23</b>	155 bp	1070 bp	*30:26	
<b>24<sup>4,14</sup></b>	80 bp, 200 bp	<b>800 bp</b>	*30:25, 30:37	

<sup>1</sup>Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-A\*30 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



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amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated

<sup>2</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 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\*30 subtyping.

In addition, wells number 2, 3, 8, 11, 15, 18, 20, 22 and 24 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.

<sup>3</sup>Due to the sharing of sequence motifs between HLA-A alleles non-HLA-A\*30 alleles will be amplified by primer mixes 1, 3 to 5, 7, 10 to 12 and 17.

<sup>4</sup>Short specific PCR fragments are less intense and not as sharp as longer specific bands.

<sup>5</sup>Primer mix 4 may give rise to nonspecific amplifications.

<sup>6</sup>In primer mix 4 the positive control band may be weaker than for other HLA-A\*30 primer mixes.

<sup>7</sup>Primer mix 5: Specific PCR fragment of 150 bp in the A\*30:04, 30:06, 30:17 and 30:29 and the A\*02:52, 24:66 and 68:06 alleles. Specific PCR fragment of 245 bp in the A\*30:19 alleles.

<sup>8</sup>Primer mix 6: Specific PCR fragment of 80 bp in the A\*30:06 allele. Specific PCR fragment of 185 bp in the A\*30:07 allele.

<sup>9</sup>Primer mix 18: Specific PCR fragment of 130 bp in the A\*30:32 allele. Specific PCR fragment of 210 bp in the A\*30:20 allele.

<sup>10</sup>Primer mix 19: Specific PCR fragment of 160 bp in the A\*30:22 allele. Specific PCR fragment of 200 bp in the A\*30:31 allele.

<sup>11</sup>Primer mix 20: Specific PCR fragment of 210 bp in the A\*30:23 allele. Specific PCR fragment of 275 bp in the A\*30:34 allele.

<sup>12</sup>Primer mix 21: Specific PCR fragment of 185 bp in the A\*30:24 allele. Specific PCR fragment of 155 and 185 bp in the A\*30:30 allele.

<sup>13</sup>Primer mix 22: Specific PCR fragment of 170 bp in the A\*30:36 allele. Specific PCR fragment of 215 bp in the A\*30:27N allele.

<sup>14</sup>Primer mix 24: Specific PCR fragment of 80 bp in the A\*30:37 allele. Specific PCR fragment of 200 bp in the A\*30:25 allele.

'w', might be weakly amplified.

<b>INTERPRETATION TABLE</b>												
<b>HLA-A*30 SSP subtyping</b>												
Amplification patterns of the A*30:01 to 30:37 alleles												
	Well <sup>5</sup>											
	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec.	165	205	210	155	150	80	200	85	180	150	215	195
PCR product(s)					245	185						
Length of int.	800	800	800	1070	1070	1070	1070	800	1070	1070	800	1070
pos. control <sup>1</sup>												
5'-primer(s) <sup>2</sup>	414	363	363	123	123	123	78	367	98	127	98	363
	5'-gAA 3'	5'-ATA 3'	5'-ATA 3'	5'-AgT 3'	5'-AgT 3'	5'-AgT 3'	5'-TCT 3'	5'-TgC 3'	5'-CTC 3'	5'-ggg 3'	5'-CTC 3'	5'-ATA 3'
					414		362					
					5'-gAA 3'		5'-ggT 3'					
3'-primer(s) <sup>3</sup>	538	526	526	238	325	163	238	411	238	238	270	505
	5'-CAA 3'	5'-CCA 3'	5'-CCg 3'	5'-CCC 3'	5'-gTg 3'	5'-CgC 3'	5'-CCT 3'	5'-TCA 3'	5'-CCT 3'	5'-CCT 3'	5'-ACA 3'	5'-gCT 3'
			535		524	265	526					524
			5'-CTA 3'		5'-CAT 3'	5'-CCC 3'	5'-CCg 3'					5'-CAC 3'
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
HLA-A allele <sup>4</sup>												
*30:01:01-30:01:03	1	2							9		11	
*30:02:01-30:02:04	1		3						9		11	
*30:02:05			W						9		11	
*30:03	1		3	4							11	
*30:04					5				9		11	
*30:06					5	6			9		11	
*30:07	1		3			6			9			
*30:08	1	2					7					
*30:09	1								9		11	12
*30:10	1		3					8	9		11	
*30:11:01-30:11:02	1	2		4							11	
*30:12	1		3						9	10	11	
*30:13	1		3						9		11	
*30:14L	1	2							9		11	
*30:15	1	2							9		11	
*30:16	1	2							9		11	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

<b>INTERPRETATION TABLE</b>												
<b>HLA-A*30 SSP subtyping</b>												
<b>Amplification patterns of the A*30:01 to 30:37 alleles</b>												
<b>Well<sup>5</sup></b>												
13	14	15	16	17	18	19	20	21	22	23	24	
155	210	245	265	225	130	160	210	155	170	155	80	Length of spec. PCR product(s)
					210	200	275	185	215		200	
1070	1070	800	1070	1070	800	1070	800	1070	800	1070	800	Length of int.
												pos. control <sup>1</sup>
123	123	363	363	98	123	123	363	410	363	413	123	5'-primer(s) <sup>2</sup>
5'-AgT <sup>3'</sup>	5'-AgT <sup>3'</sup>	5'-ATA <sup>3'</sup>	5'-ATA <sup>3'</sup>	5'-CTC <sup>3'</sup>	5'-AgT <sup>3'</sup>	5'-AgT <sup>3'</sup>	5'-ATA <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-ATA <sup>3'</sup>	5'-CCg <sup>3'</sup>	5'-AgT <sup>3'</sup>	
			784					634			485	
			5'-ggA <sup>3'</sup>					5'-CAg <sup>3'</sup>			5'-CAC <sup>3'</sup>	
238	292	563	586	282	212	240	530	526	494	526	282	3'-primer(s) <sup>3</sup>
5'-CCT <sup>3'</sup>	5'-gTg <sup>3'</sup>	5'-Cgg <sup>3'</sup>	5'-CAC <sup>3'</sup>	5'-gAC <sup>3'</sup>	5'-gCC <sup>3'</sup>	5'-ggA <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-TCC <sup>3'</sup>	5'-CCA <sup>3'</sup>	5'-gAC <sup>3'</sup>	
		572	899		294	281	595	777	535		526	
		5'-gCg <sup>3'</sup>	5'-ACA <sup>3'</sup>		5'-CgT <sup>3'</sup>	5'-ACC <sup>3'</sup>	5'-CCT <sup>3'</sup>	5'-gCA <sup>3'</sup>	5'-CTA <sup>3'</sup>		5'-CCA <sup>3'</sup>	
13	14	15	16	17	18	19	20	21	22	23	24	Well No.
												HLA-A allele <sup>4</sup>
13				17								*30:01:01-30:01:03
13												*30:02:01-30:02:04
13												*30:02:05
												*30:03
13												*30:04
13												*30:06
13												*30:07
13												*30:08
13												*30:09
13												*30:10
				17								*30:11:01-30:11:02
												*30:12
13	14											*30:13
13		15		17								*30:14L
13			16	17								*30:15
13	14			17								*30:16
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

Lot No.: **51M**

Lot-specific information

www.olerup-ssp.com

Length of spec.	165	205	210	155	150	80	200	85	180	150	215	195
PCR product(s)					245	185						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12
*30:17					5				9		11	
*30:18	1	2							9	10	11	
*30:19	1	2			5				9		11	
*30:20	1	2							9		11	
*30:22	1		3									
*30:23	1	2							9		11	
*30:24	1	2							9		11	
*30:25	1		3						9		11	
*30:26		2							9		11	
*30:27N	1		3						9		11	
*30:28	1						7		9		11	
*30:29					5				9		11	
*30:30		2							9		11	
*30:31	1	2							9			
*30:32	1		3						9		11	
*30:33	1		3						9		11	
*30:34	1		3						9		11	
*30:35	1	2							9		11	12
*30:36	1	2							9		11	
*30:37	1	2							9		11	
*01:02, 01:20				4							w	
*01:07, 26:19, 29:14, 31:01:02-31:01:06, 31:02, 31:05-31:07, 31:09-31:31										10		
*02:52	1				5							
*02:185							w			10		
*03:42												12
*03:43	1											
*03:72, 68:45											11	
*23:09											w	
*24:19												
*24:24, 24:67, 26:16, 32:07											11	
*24:66, 68:06					5							
*31:03-31:04										10		12
*80:01-80:02			w									
HLA-A allele <sup>4</sup>												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Lot No.: **51M**

Lot-specific information

www.olerup-ssp.com

155	210	245	265	225	130	160	210	155	170	155	80	Length of spec. PCR product(s)
					210	200	275	185	215		200	Well No.
13	14	15	16	17	18	19	20	21	22	23	24	
13				17								*30:17
				17								*30:18
13				17								*30:19
13				17	18							*30:20
						19						*30:22
13				17			20					*30:23
13				17				21				*30:24
13											24	*30:25
13				17						23		*30:26
13									22			*30:27N
13												*30:28
13		15										*30:29
13				17				21				*30:30
13				17		19						*30:31
13					18							*30:32
13			16									*30:33
13							20					*30:34
13				17								*30:35
13				17					22			*30:36
13				17							24	*30:37
												*01:02, 01:20
												*01:07, 26:19, 29:14, 31:01:02-31:01:06, 31:02, 31:05-31:07, 31:09-31:31
												*02:52
												*02:185
												*03:42
												*03:43
				17								*03:72, 68:45
												*23:09
				17								*24:19
												*24:24, 24:67, 26:16, 32:07
												*24:66, 68:06
												*31:03-31:04
												*80:01-80:02
												HLA-A allele <sup>4</sup>
13	14	15	16	17	18	19	20	21	22	23	24	Well No.

<sup>1</sup>The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 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\*30 subtyping.

In addition, wells number 2, 3, 8, 11, 15, 18, 20, 22 and 24 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

<sup>2</sup>The nucleotide position, in the 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> exons, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>3</sup>The nucleotide position, in the 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> exons, 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](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>4</sup>The sequence of the A\*3005 allele has been shown to be identical to A\*30:04.

A\*3021 has been renamed A\*30:11:02.

<sup>5</sup>Primer mix 5: Specific PCR fragment of 150 bp in the A\*30:04, 30:06, 30:17 and 30:29 and the A\*02:52, 24:66 and 68:06 alleles. Specific PCR fragment of 245 bp in the A\*30:19 alleles.

Primer mix 6: Specific PCR fragment of 80 bp in the A\*30:06 allele. Specific PCR fragment of 185 bp in the A\*30:07 allele.

Primer mix 18: Specific PCR fragment of 130 bp in the A\*30:32 allele. Specific PCR fragment of 210 bp in the A\*30:20 allele.

Primer mix 19: Specific PCR fragment of 160 bp in the A\*30:22 allele. Specific PCR fragment of 200 bp in the A\*30:31 allele.

Primer mix 20: Specific PCR fragment of 210 bp in the A\*30:23 allele. Specific PCR fragment of 275 bp in the A\*30:34 allele.

Primer mix 21: Specific PCR fragment of 185 bp in the A\*30:24 allele. Specific PCR fragment of 155 and 185 bp in the A\*30:30 allele.

Primer mix 22: Specific PCR fragment of 170 bp in the A\*30:36 allele. Specific PCR fragment of 215 bp in the A\*30:27N allele.

Primer mix 24: Specific PCR fragment of 80 bp in the A\*30:37 allele. Specific PCR fragment of 200 bp in the A\*30:25 allele.

'w', might be weakly amplified.

CELL LINE VALIDATION SHEET																				
HLA-A*30 SSP subtyping kit																				
				Lot No.:	Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					201070601	201070602	201070603	201070604	201070605	201070606	201189407	201070608	201070609	201070610	201070611	201189412	201070613	201070614	201070615	201189416
	IHWC cell line	A*	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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET													
HLA-A*30 SSP subtyping kit													
				Lot No.:	Well								
					17	18	19	20	21	22	23	24	
					201070617	201070618	201070619	201070620	201070621	201189422	201189423	201189424	
	IHWC cell line	A*	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		-	-	-	-	-	-	-	-	-



## CERTIFICATE OF ANALYSIS

### **Olerup SSP® HLA-A\*30**

**Product number:** 101.429-12 – including *Taq* polymerase  
**Lot number:** 51M  
**Expiry date:** 2014-February-01  
**Number of tests:** 12  
**Number of wells per test:** 24

#### **Well specifications:**

Well No.	Production No.	Well No.	Production No.
1	2010-706-01	13	2010-706-13
2	2010-706-02	14	2010-706-14
3	2010-706-03	15	2010-706-15
4	2010-706-04	16	2011-894-16
5	2010-706-05	17	2010-706-17
6	2010-706-06	18	2010-706-18
7	2011-894-07	19	2010-706-19
8	2010-706-08	20	2010-706-20
9	2010-706-09	21	2010-706-21
10	2010-706-10	22	2011-894-22
11	2010-706-11	23	2011-894-23
12	2011-894-12	24	2011-894-24

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 to 8, 14 to 16 and 18 to 24 were available. The specificities of the primers in primer 6, 7, 14 to 16, 19, 23 and 24 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer. In primer solutions 18, 20 and 22 it was only possible to test the 5'-primer, the 3'-primers were not possible to test. In primer solution 8 and 21 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solutions 7 and 16 one 5'-primer was not possible to test, and in primer solutions 2, 3, 5, 6, 12, 15, 16 and 19 one 3'-primer was not possible to test.

In addition, one 5'-primer in primer solution 5 was tested by adding an additional 3'-primer.

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

**Date of approval:** 2011-September-08

**Approved by:**

**Quality Control, Supervisor**

Lot No.: **51M**

Lot-specific information

[www.olerup-ssp.com](http://www.olerup-ssp.com)

## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-A\*30  
**Product number:** 101.429-12  
**Lot number:** 51M

**Intended use:** HLA-A\*30 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, conformity assessed using Annex IV, 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.

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  
2011-September-08

Ann-Cathrin Jareman  
Head of QA and Regulatory Affairs



Lot No.: **51M**

Lot-specific information

[www.olerup-ssp.com](http://www.olerup-ssp.com)

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