

**Olerup SSP<sup>®</sup> HLA-A\*24**

Product number:	101.422-24u/03u – without <i>Taq</i> pol.
Lot number:	78M
Expiry date:	2014-April-01
Number of tests:	24 tests – Product No. 101.422-24u 3 tests – Product No. 101.422-03u
Number of wells per test:	93
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. 78M.**

**CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP<sup>®</sup>*  
HLA-A\*24 Lot**

The HLA-A\*24 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP<sup>®</sup>* HLA-A\*24 lot was made (Lot No. 63K).

The amplification patterns for some rare HLA-A\*24 alleles only differ by the length of the specific PCR products.

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

Well	5'-primer	3'-primer	Rationale
9	Added	-	Improved yield of HLA-specific PCR product.
11	Added	-	Improved yield of HLA-specific PCR product.
29	Added	-	Improved yield of HLA-specific PCR product.
30	Added	-	Improved yield of HLA-specific PCR product.
48	Added	-	Improved yield of HLA-specific PCR product.

Change in revision R01 compared to R00:

1. Modified sequence as of allele database 3.7.0: A\*24:142 corrected at positions 124-5. As a consequence, the A\*24:142 allele is not amplified by primer mixes 35 and 80.

## PRODUCT DESCRIPTION

### HLA-A\*24 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-A\*24:02 to A\*24:144 alleles.

#### PLATE LAYOUT

Each test consists of 93 PCR reactions in a 96 well PCR plate. Wells 94 to 96 are empty.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	93	empty	empty	empty

The 96 well PCR plate is marked with 'HLA-A\*24' in silver/gray ink.

Well No. 1 is marked with '78M'.

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 aluminum foil.

#### INTERPRETATION

The interpretation of HLA-A\*24 SSP subtypings will be influenced by the A\*01, several A\*02, six A\*03, six A\*11, the A\*23, the A\*25:11, nine A\*26, four A\*29, several A\*30, five A\*31, three A\*32, four A\*33, the A\*66:10, the A\*68, the A\*74:06 and the A\*80 alleles when present on the other haplotype. In addition, the B\*07:64, B\*15:12 and B\*15:19 alleles will be amplified by primer mixes 32, 45 and 91, the B\*18:27 allele will be amplified by mixes 2, 6, 25, 30 and 48 and the B\*18:38 allele will be amplified by primer mix 63. Moreover, the C\*12:37 allele will be amplified by primer mixes 46 and 57.

## UNIQUELY IDENTIFIED ALLELES

All the HLA-A\*24 alleles, i.e. **A\*24:02 to A\*24:144**, recognized by the HLA Nomenclature Committee in July 2010<sup>1</sup> will give rise to unique amplification patterns by the primers in the HLA-A\*24 subtyping kit.

The HLA-A\*24 subtyping kit cannot distinguish the A\* 24:02:01:01, 24:02:02-24:02:04, 24:02:06-24:02:09, 24:02:11-24:02:12 and 24:02:14-24:02:36 alleles, the A\* 24:03:01 and 24:03:02 alleles or the A\* 24:21:01 and 24:21:02 alleles.

The A\*24:37 and 24:119 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 31.

The A\*24:49 and 24:126 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 38.

The A\*24:81 and 24:134 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 70.

The A\*24:82 and 24:128 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 71.

The A\*24:101 and 24:111 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 83.

The A\*24:102 and 24:103 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 84.

The A\*24:104 and 24:117 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 85.

The A\*24:105 and 24:121 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 86.

The A\*24:106 and 24:136 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 87.

<sup>1</sup>HLA-A alleles listed on the IMGT/HLA web page 2010-July-16, release 3.1.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

## RESOLUTION IN HOMO- AND HETEROZYGOTES

A total of 233 alleles generate 135 amplification patterns that can be combined in 9180 homozygous and heterozygous combinations. 3835 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.

## SPECIFICITY TABLE

### HLA-A\*24 SSP subtyping

Specificities and sizes of the PCR products of the 93 primer mixes used for HLA-A\*24 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-A*24 alleles <sup>3</sup>	Other amplified HLA Class I alleles <sup>4</sup>
<b>1<sup>8</sup></b>	210 bp	<b>800 bp</b>	*24:02:01:01-24:02:12, 24:02:13 <sup>w</sup> , 24:02:14-24:11N, 24:13:01-24:15, 24:17-24:32, 24:34-24:64, 24:66-24:75, 24:77-24:144	*23:01:01-23:26, 33:19, 80:01 <sup>w</sup> -80:02 <sup>w</sup>
<b>2</b>	245 bp	1070 bp	*24:03:01-24:03:02, 24:10, 24:18, 24:22, 24:33, 24:94, 24:125, 24:138	*02:17:01-02:17:02, 02:108, 02:110, 23:04, 29:07, 31:29, <b>B*18:27</b>
<b>3</b>	210 bp	<b>800 bp</b>	*24:02:01:01-24:05, 24:07-24:11N, 24:17, 24:19-24:21:02, 24:23, 24:25-24:50, 24:55-24:56, 24:58-24:63, 24:66-24:86N, 24:88-24:90N, 24:93, 24:95-24:106, 24:108-24:113, 24:115-24:132N, 24:134-24:137, 24:139-24:144	*33:19
<b>4<sup>6</sup></b>	220 bp	1070 bp	*24:06, 24:13:01, 24:18, 24:22, 24:24, 24:94, 24:138	*02:17:01-02:17:02, 02:108, 02:110, 23:01:01-23:13, 23:15-23:26, 29:07, 31:29
<b>5</b>	175 bp	1070 bp	*24:02:01:01-24:04, 24:06-24:11N, 24:13:01-24:13:02, 24:17-24:23, 24:25-24:50, 24:54-24:56, 24:58-24:63, 24:66-24:91, 24:93, 24:95-24:113, 24:115-24:129, 24:131-24:137, 24:139-24:144	*02:17:01 <sup>w</sup> -02:17:02 <sup>w</sup> , 23:14, 33:19
<b>6<sup>6</sup></b>	175 bp	1070 bp	*24:05, 24:24	*23:01:01-23:13, 23:15-23:26, 29:07, 31:29, <b>B*18:27</b>
<b>7</b>	335 bp	1070 bp	*24:02:01:01-24:03:02, 24:05-24:11N, 24:13:01-24:13:02, 24:17-24:18, 24:20-24:27, 24:29-24:43, 24:45N-	*23:01:01-23:26

			24:50, 24:52, 24:54-24:56, 24:58-24:64, 24:66-24:88, 24:90N-24:91, 24:93-24:108, 24:110-24:117, 24:119- 24:128, 24:130-24:144	
<b>8<sup>5</sup></b>	75 bp	1070 bp	*24:04, 24:109	
<b>9</b>	225 bp	<b>800 bp</b>	*24:07, 24:19, 24:24, 24:112, 24:131	*03:72, 23:13, 30:01:01-30:01:03, 30:11:01-30:11:02, 30:14L-30:20, 30:23- 30:26, 30:30-30:31, 30:35-30:41, 68:45
<b>10</b>	370 bp	1070 bp	*24:02:01:01-24:02:04, 24:02:06-24:06, 24:08- 24:11N, 24:13:01-24:13:02, 24:17-24:18, 24:20-24:23, 24:25-24:50, 24:52, 24:54- 24:56, 24:58-24:64, 24:66- 24:91, 24:93-24:107, 24:109- 24:111, 24:113-24:117, 24:119-24:130, 24:132N- 24:144	*02:10, 02:17:01- 02:17:02, 02:39, 02:108, 02:110, 02:148, 02:242, 02:244, 23:01:01- 23:12, 23:14-23:21, 23:23-23:26, 31:29, 33:19
<b>11<sup>8,9</sup></b>	200 bp, 245 bp	1070 bp	*24:08, 24:42, 24:61, 24:89	*02:76, 30:22
<b>12</b>	235 bp	1070 bp	*24:25	*23:05
<b>13</b>	160 bp	1070 bp	*24:02:01:01-24:02:36, 24:04-24:09N, 24:11N, 24:13:01-24:15, 24:17, 24:19- 24:20, 24:23-24:32, 24:34- 24:64, 24:66-24:74, 24:76- 24:93, 24:95-24:109, 24:111- 24:124, 24:126-24:137, 24:139-24:144	*02:19, 02:36-02:37, 02:54, 02:255, 23:01:01-23:02, 23:05- 23:26, 33:19, 68:26
<b>14<sup>5</sup></b>	105 bp	1070 bp	*24:09N	
<b>15<sup>5,10</sup></b>	105 bp, 385 bp	<b>800 bp</b>	*24:14-24:15, 24:19, 24:44, 24:51, 24:53, 24:57, 24:92, 24:100, 24:109	*02:46, 02:48, 02:70, 02:129, 03:30, 30:07, 31:08, 32:05, 33:21
<b>16<sup>5</sup></b>	85 bp	1070 bp	*24:17, 24:41	*29:07
<b>17</b>	230 bp	1070 bp	*24:10, 24:46	*23:10
<b>18</b>	275 bp	1070 bp	*24:02:01:02L	
<b>19<sup>8</sup></b>	195 bp	1070 bp	*24:02:01:01-24:02:09, 24:02:11-24:11N, 24:13:01- 24:15, 24:17-24:32, 24:34- 24:64, 24:66-24:144	*23:01:01-23:26, 33:19

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Lot-specific information

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<b>20<sup>7,8</sup></b>	470 bp	1070 bp	*24:11N	*01:04N, 03:21N, 11:21N, 23:07N
<b>21</b>	155 bp	<b>800 bp</b>	*24:31	
<b>22<sup>5</sup></b>	125 bp	<b>800 bp</b>	*24:27	
<b>23</b>	190 bp	<b>800 bp</b>	*24:28, 24:30, 24:42, 24:89	*02:01:09, 02:06:07, 02:50, 02:122, 03:09, 11:06, 11:18, 23:12, 25:11, 26:03:01- 26:03:02, 26:06, 26:21, 26:30, 29:19, 32:08, 33:24, 68:05, 68:15, 68:20, 74:06
<b>24</b>	240 bp	<b>800 bp</b>	*24:19, 24:28, 24:44, 24:89	*02:76, 03:72, 30:01:01-30:01:03, 30:11:01-30:11:02, 30:13-30:20, 30:23- 30:24, 30:26, 30:30- 30:31, 30:35-30:41, 68:45
<b>25</b>	220 bp	1070 bp	*24:13:01-24:13:02, 24:18, 24:24, 24:56, 24:94	*02:17:01-02:17:02, 02:108, 02:110, 23:01:01-23:01:02, 23:03:01-23:26, 29:07, 31:29, <b>B*18:27</b>
<b>26<sup>5,11</sup></b>	90 bp, 220 bp	<b>800 bp</b>	*24:22, 24:96	
<b>27<sup>5,8,12</sup></b>	80 bp, 370 bp	<b>800 bp</b>	*24:14, 24:32	*02:46, 02:48, 02:70, 02:129, 32:05
<b>28</b>	155 bp	<b>800 bp</b>	*24:35	
<b>29</b>	210 bp	<b>800 bp</b>	*24:08, 24:29, 24:42, 24:89	*02:76, 30:22
<b>30<sup>5,13</sup></b>	125 bp, 200 bp	<b>800 bp</b>	*24:21:01-24:21:02, 24:59	*23:03:01-23:03:02, 29:07, 31:29, <b>B*18:27</b>
<b>31<sup>14</sup></b>	155 bp, 235 bp	<b>800 bp</b>	*24:04, 24:37, 24:109, 24:119, 24:129	*01:02, 01:20, 26:16
<b>32</b>	225 bp	1070 bp	*24:15, 24:41, 24:51, 24:92	*01:01:01:01-01:04N, 01:06-01:33, 01:01:38L, 01:35- 01:37, 01:39-01:41, 01:43-01:66, 11:27, 11:38-11:39, 26:29, 26:49, 32:13, 66:10, <b>B*07:64<sup>W</sup>, B*15:12<sup>W</sup>, 15:19<sup>W</sup></b>
<b>33<sup>5</sup></b>	100 bp	1070 bp	*24:39, 24:139	

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<b>34</b>	195 bp	<b>800 bp</b>	*24:36N	
<b>35<sup>7</sup></b>	200 bp	<b>800 bp</b>	*24:45N, 24:88	
<b>36<sup>5,8</sup></b>	115 bp	1070 bp	*24:47, 24:124	*31:07, 31:10
<b>37</b>	210 bp	1070 bp	*24:48N, 24:54	
<b>38<sup>15</sup></b>	145 bp, 170 bp, 230 bp	<b>800 bp</b>	*24:49, 24:126, 24:137	
<b>39</b>	210 bp	<b>800 bp</b>	*24:50	*02:129
<b>40</b>	225 bp	1070 bp	*24:08, 24:20, 24:88	
<b>41<sup>7,16</sup></b>	200 bp, 240 bp	1070 bp	*24:26, 24:62, 24:118, 24:132N	*01:39, 26:29, 26:49, 31:05, 32:13, 33:10, 66:10
<b>42</b>	200 bp	1070 bp	*24:24, 24:67	*26:16, 68:45
<b>43</b>	160 bp	<b>800 bp</b>	*24:43	
<b>44</b>	250 bp	<b>800 bp</b>	*24:51, 24:57, 24:92, 24:120	*01:01:01:01-01:04N, 01:06-01:19, 01:21- 01:33, 01:01:38L, 01:35-01:65, 03:18, 11:27, 11:38-11:39, 26:29, 26:49, 29:03, 31:05, 32:13, 33:10, 66:10, 68:26, 80:01- 80:02
<b>45<sup>17</sup></b>	200 bp, 245 bp	1070 bp	*24:14, 24:52, 24:113, 24:132N	*01:20, 01:66, 02:19, 02:36-02:37, 02:54, 02:255, 26:29, 26:49, 66:10, <b>B*07:64,</b> <b>B*15:12, B*15:19</b>
<b>46<sup>5,6</sup></b>	110 bp	1070 bp	*24:15, 24:41, 24:51, 24:92	*02:50, 02:73, 02:93, 02:122, 02:156, 02:172, 26:10, 68:02:01:01-68:02:04, 68:15, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:44, 68:48-68:49N, 68:51, 68:53-68:54, <b>C*12:37</b>
<b>47<sup>18</sup></b>	200 bp, 410 bp	<b>800 bp</b>	*24:18, 24:26, 24:56, 24:123	*03:30, 30:07, 31:08, 32:05
<b>48<sup>6</sup></b>	195 bp	1070 bp	*24:24, 24:71	*23:01:01-23:23, 23:25-23:26, 29:07, 31:29, <b>B*18:27</b>
<b>49<sup>19</sup></b>	215 bp, 245 bp	1070 bp	*24:23, 24:91	

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<b>50</b>	235 bp	<b>800 bp</b>	*24:34	
<b>51<sup>20</sup></b>	165 bp, 215 bp	<b>800 bp</b>	*24:38, 24:140	
<b>52<sup>8</sup></b>	240 bp	<b>800 bp</b>	*24:40N	
<b>53</b>	230 bp	1070 bp	*24:55	
<b>54<sup>8</sup></b>	165 bp	1070 bp	*24:58	
<b>55</b>	240 bp	1070 bp	*24:60N	
<b>56</b>	270 bp	1070 bp	*24:63	
<b>57</b>	135 bp	1070 bp	*24:64	<b>C*12:37</b>
<b>58</b>	195 bp	1070 bp	*24:66	
<b>59<sup>21</sup></b>	230 bp, 255 bp, 285 bp	1070 bp	*24:68, 24:127, 24:143	
<b>60</b>	275 bp	<b>800 bp</b>	*24:69	
<b>61<sup>5,22</sup></b>	105 bp, 280 bp	<b>800 bp</b>	*24:70, 24:127, 24:141	
<b>62<sup>5</sup></b>	125 bp	<b>800 bp</b>	*24:72	*02:106, 02:145
<b>63</b>	135 bp	1070 bp	*24:73	<b>B*18:38</b>
<b>64<sup>5,8,23</sup></b>	115 bp, 170 bp	1070 bp	*24:74, 24:124	*31:07, 31:10
<b>65<sup>5,24</sup></b>	80 bp, 235 bp	1070 bp	*24:75, 24:90N	*02:88N
<b>66</b>	200 bp	<b>800 bp</b>	*24:77	
<b>67</b>	230 bp	1070 bp	*24:79	
<b>68<sup>25</sup></b>	230 bp, 285 bp	<b>800 bp</b>	*24:78, 24:141, 24:143	
<b>69<sup>5</sup></b>	105 bp	1070 bp	*24:80	
<b>70<sup>5,26</sup></b>	110 bp, 250 bp	1070 bp	*24:81, 24:134	
<b>71<sup>27</sup></b>	130 bp, 260 bp	<b>800 bp</b>	*24:82, 24:128	*29:13, 31:07-31:08, 31:10
<b>72<sup>5</sup></b>	120 bp	1070 bp	*24:83N	
<b>73<sup>5,28</sup></b>	100 bp, 170 bp	1070 bp	*24:84N, 24:131, 24:138	*02:17:01-02:17:02, 02:108, 02:110
<b>74</b>	200 bp	1070 bp	*24:85	
<b>75</b>	290 bp	1070 bp	*24:86N	
<b>76<sup>8,29</sup></b>	170 bp, 260 bp	1070 bp	*24:76, 24:98	
<b>77<sup>30</sup></b>	145 bp, 210 bp	<b>800 bp</b>	*24:06, 24:87, 24:122, 24:138	*23:02



<b>78</b>	140 bp	<b>800 bp</b>	*24:57, 24:92, 24:120	*02:50, 02:73, 02:122, 02:156, 02:245, 03:17, 26:10, 68:01:01:01- 68:43, 68:45-68:54
<b>79</b>	250 bp	1070 bp	*24:14, 24:93, 24:114	*01:20, 01:66, 02:19, 02:36-02:37, 02:54, 02:255
<b>80</b> <sup>31</sup>	165 bp, 220 bp	1070 bp	*24:95, 24:140	
<b>81</b> <sup>5,32</sup>	100 bp, 215 bp	1070 bp	*24:97, 24:133, 24:139	
<b>82</b> <sup>33</sup>	185 bp, 225 bp	1070 bp	*24:99, 24:125, 24:130	
<b>83</b> <sup>34</sup>	135 bp, 275 bp	<b>800 bp</b>	*24:101, 24:111	
<b>84</b> <sup>5,35</sup>	95 bp, 210 bp, 290 bp	1070 bp	*24:102-24:103, 24:107	
<b>85</b> <sup>36</sup>	145 bp, 210 bp	1070 bp	*24:104, 24:117	*03:30, 32:05
<b>86</b> <sup>37</sup>	190 bp, 255 bp	1070 bp	*24:105, 24:121	
<b>87</b> <sup>5,6,38</sup>	90 bp, 120 bp, 195 bp	1070 bp	*24:17, 24:41, 24:62, 24:106, 24:110, 24:136	*29:07, 31:29
<b>88</b>	170 bp	1070 bp	*24:116, 24:137	
<b>89</b> <sup>5,39</sup>	75 bp, 270 bp	1070 bp	*24:07, 24:108, 24:112, 24:131	*23:13
<b>90</b> <sup>5</sup>	95 bp	<b>800 bp</b>	*24:115	
<b>91</b>	215 bp	1070 bp	*24:135	*32:13, <b>B*07:64,</b> <b>B*15:12, B*15:19</b>
<b>92</b>	190 bp	1070 bp	*24:144	
<b>93</b>	270 bp	1070 bp	*24:112	

<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\*24 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.

<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\*24 subtyping.

In addition, wells number 3, 9, 15, 21 to 24, 26 to 31, 34, 35, 38, 39, 43, 44, 47, 50 to 52, 60 to 62, 66, 68, 71, 77, 78, 83 and 90 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>The A\*24:37 and 24:119 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 31.

The A\*24:49 and 24:126 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 38.

The A\*24:81 and 24:134 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 70.

The A\*24:82 and 24:128 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 71.

The A\*24:101 and 24:111 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 83.

The A\*24:102 and 24:103 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 84.

The A\*24:104 and 24:117 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 85.

The A\*24:105 and 24:121 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 86.

The A\*24:106 and 24:136 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 87.

<sup>4</sup>Due to the sharing of sequence motifs between HLA-A alleles some non-HLA-A\*24 alleles will be amplified by primer mixes 1 to 7, 9 to 13, 15 to 17, 19, 20, 23 to 25, 27, 29 to 32, 36, 39, 41, 42, 44 to 48, 62, 64, 65, 71, 73, 77 to 79, 85, 87, 89 and 91. In addition, the B\*07:64, B\*15:12 and B\*15:19 alleles will be amplified by primer mixes 32, 45 and 91, the B\*18:27 allele will be amplified by mixes 2, 6, 25, 30 and 48, the B\*18:38 allele will be amplified by primer mix 63 and the C\*12:37 allele will be amplified by primer mixes 46 and 57.

We assume that unknown 4<sup>th</sup> exon A\*23 and A\*24 nucleotide sequences are conserved within the A\*23/A\*24 allele group.

<sup>5</sup>Short specific PCR fragments are less intense and not as sharp as longer specific bands.

<sup>6</sup>Primer mixes 4, 6, 46, 48 and 87 may yield less specific PCR products than the other A\*24 primer mixes.

<sup>7</sup>Primer mixes 20, 35 and 41 may give rise to a primer oligomer artefact.

<sup>8</sup>Primer mixes 1, 11, 19, 20, 27, 36, 52, 54, 64 and 76 may give rise to nonspecific amplifications.

<sup>9</sup>Primer mix 11: Specific PCR fragment of 200 bp in the A\* 24:08, 24:42 and 24:89 and in the A\*02:76 and 30:22 alleles. Specific PCR fragment of 245 bp in the A\*24:61 allele.

<sup>10</sup>Primer mix 15: Specific PCR fragment of 105 bp in the A\* \*24:19, 24:44, 24:100 and 24:109 alleles. Specific PCR fragment of 385 bp in the A\* 24:14-24:15, 24:51, 24:53, 24:57 and 24:92 and in the A\*02:46, 02:48, 02:70, 02:129, 03:30, 30:07, 31:08, 32:05 and 33:21 alleles.

<sup>11</sup>Primer mix 26: Specific PCR fragment of 90 bp in the A\*24:96 allele. Specific PCR fragment of 220 bp in the A\*24:22 allele.

<sup>12</sup>Primer mix 27: Specific PCR fragment of 80 bp in the A\*24:32 and A\*32:05 alleles. Specific PCR fragment of 370 bp in the A\*24:14 and in the A\*02:46, 02:48, 02:70 and 02:129 alleles.

<sup>13</sup>Primer mix 30: Specific PCR fragment of 125 bp in the A\*24:21:01-24:21:02 and in the A\*23:03:01-23:03:02, 29:07 and 31:29 and in the B\*18:27 alleles. Specific PCR fragment of 200 bp in the A\*24:59 allele.

<sup>14</sup>Primer mix 31: Specific PCR fragment of 155 bp in the A\*24:37 allele. Specific PCR fragment of 235 bp in the A\*24:04, 24:109, 24:119 and 24:129 and in the A\*01:02, 01:20 and 26:16 alleles.

<sup>15</sup>Primer mix 38: Specific PCR fragment of 145 bp in the A\*24:49 allele. Specific PCR fragment of 170 bp in the A\*24:137 allele. Specific PCR fragment of 230 bp in the A\*24:126 allele.

<sup>16</sup>Primer mix 41: Specific PCR fragment of 200 bp in the A\*24:26 and 24:62 and in the A\*01:39, 26:29, 26:49, 31:05, 32:13, 33:10 and 66:10 alleles. Specific PCR fragment of 240 bp in the A\*24:118 and 24:132N alleles.

<sup>17</sup>Primer mix 45: Specific PCR fragment of 200 bp in the A\*24:113 allele. Specific PCR fragment of 245 bp in the A\*24:14, 24:52 and 24:132N and in the A\*01:20, 01:66, 02:19, 02:36-02:37, 02:54, 02:255, 26:29, 26:49 and 66:10 and in the B\*07:64, B\*15:12 and B\*15:19 alleles.

<sup>18</sup>Primer mix 47: Specific PCR fragment of 200 bp in the A\*24:18, 24:56 and 24:123 alleles. Specific PCR fragment of 410 bp in the A\*24:26 and in the A\*03:30, 30:07, 31:08 and 32:05 alleles.

<sup>19</sup>Primer mix 49: Specific PCR fragment of 215 bp in the A\*24:91 allele. Specific PCR fragment of 245 bp in the A\*24:23 allele.

<sup>20</sup>Primer mix 51: Specific PCR fragment of 165 bp in the A\*24:140 allele. Specific PCR fragment of 215 bp in the A\*24:38 allele.

<sup>21</sup>Primer mix 59: Specific PCR fragment of 230 bp in the A\*24:143 allele. Specific PCR fragment of 255 bp in the A\*24:68 allele. Specific PCR fragment of 285 bp in the A\*24:127 allele.

<sup>22</sup>Primer mix 61: Specific PCR fragment of 105 bp in the A\*24:70 allele. Specific PCR fragment of 280 bp in the A\*24:127 and 24:141 alleles.

<sup>23</sup>Primer mix 64: Specific PCR fragment of 115 bp in the A\*24:124 and in the A\*31:07 and 31:10 alleles. Specific PCR fragment of 170 bp in the A\*24:74 allele.

<sup>24</sup>Primer mix 65: Specific PCR fragment of 80 bp in the A\*24:75 allele. Specific PCR fragment of 235 bp in the A\*24:90N and the A\*02:88N alleles.

<sup>25</sup>Primer mix 68: Specific PCR fragment of 230 bp in the A\*24:143 allele. Specific PCR fragment of 285 bp in the A\*24:78 and 24:141 alleles.

<sup>26</sup>Primer mix 70: Specific PCR fragment of 110 bp in the A\*24:134 allele. Specific PCR fragment of 250 bp in the A\*24:81 allele.

<sup>27</sup>Primer mix 71: Specific PCR fragment of 130 bp in the A\*24:128 allele. Specific PCR fragment of 260 bp in the A\*24:82 and in the A\*29:13, 31:07-31:08 and 31:10 alleles.

<sup>28</sup>Primer mix 73: Specific PCR fragment of 100 bp in the A\*24:84N allele. Specific PCR fragment of 170 bp in the A\*24:131 and 24:138 and in the A\*02:17:01-02:17:02, 02:108 and 02:110 alleles.

<sup>29</sup>Primer mix 76: Specific PCR fragment of 170 bp in the A\*24:76 allele. Specific PCR fragment of 260 bp in the A\*24:98 allele.

<sup>30</sup>Primer mix 77: Specific PCR fragment of 145 bp in the A\*24:122 allele. Specific PCR fragment of 210 bp in the A\*24:06, 24:87 and 24:138 and in the A\*23:02 alleles.

<sup>31</sup>Primer mix 80: Specific PCR fragment of 165 bp in the A\*24:140 allele. Specific PCR fragment of 220 bp in the A\*24:95 allele.

<sup>32</sup>Primer mix 81: Specific PCR fragment of 100 bp in the A\*24:139 allele. Specific PCR fragment of 215 bp in the A\*24:97 and 24:133 alleles.

<sup>33</sup>Primer mix 82: Specific PCR fragment of 185 bp in the A\*24:99 and 24:130 alleles. Specific PCR fragment of 225 bp in the A\*24:125 allele.

<sup>34</sup>Primer mix 83: Specific PCR fragment of 135 bp in the A\*24:111 allele. Specific PCR fragment of 275 bp in the A\*24:101 allele.

<sup>35</sup>Primer mix 84: Specific PCR fragment of 95 bp in the A\*24:103 allele. Specific PCR fragment of 210 bp in the A\*24:107 allele. Specific PCR fragment of 290 bp in the A\*24:102 allele.

<sup>36</sup>Primer mix 85: Specific PCR fragment of 145 bp in the A\*24:117 allele. Specific PCR fragment of 210 bp in the A\*24:104 and in the A\*03:30 and 32:05 alleles.

<sup>37</sup>Primer mix 86: Specific PCR fragment of 190 bp in the A\*24:121 allele. Specific PCR fragment of 255 bp in the A\*24:105 allele.

<sup>38</sup>Primer mix 87: Specific PCR fragment of 90 bp in the A\*24:17, 24:41, 24:62 and 24:106 and in the A\*29:07 and 31:29 alleles. Specific PCR fragment of 120 bp in the A\*24:110 allele. Specific PCR fragment of 195 bp in the A\*24:136 alleles.

<sup>39</sup>Primer mix 89: Specific PCR fragment of 75 bp in the A\*24:07, 24:108 and 24:131 and in the A\*23:13 alleles. Specific PCR fragment of 270 bp in the A\*24:112 allele.

‘w’, might be weakly amplified.

















Lot No.: **78M**

Lot-specific information

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																				Well No.																					
4	5	5	5	5	5	5	5	6	6	6	6	6	6	6	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	HLA-A allele					
																																					*02:50, 02:122, 68:15 *02:73, 02:156, 26:10, 68:02:01:01-68:02:04, 68:18N, 68:25, 68:27-68:28, 68:31, 68:34, 68:40, 68:48- 68:49N, 68:51, 68:53-68:54 *02:76 *02:88N				
																																					*02:93, 02:172, 68:44 *02:106, 02:145 *02:108, 02:110 *02:129				
																																					*02:245, 03:17, 68:01:01:01- 68:01:07, 68:03:01-68:04, 68:06-68:14, 68:16-68:17, 68:19, 68:21:01-68:24, 68:29-68:30, 68:32-68:33, 68:35-68:39, 68:41-68:43, 68:46-68:47, 68:50, 68:52 *03:21N, 11:21N *03:30 *03:72, 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, 30:35-30:41				
																																					*23:01:01-23:01:02, 23:06, 23:08N-23:09, 23:11N, 23:15-23:21, 23:23, 23:25- 23:26 *23:02 *23:03:01-23:03:02 *23:04 *23:05 *23:07N *23:10 *23:12 *23:13 *23:14 *23:22 *23:24 *26:16 *26:29, 26:49, 66:10 *29:07 *29:13 *30:07 *30:13 *30:22 *30:25				
																																					*31:05, 33:10 *31:07, 31:10 *31:08 *31:29 *32:05 *32:13 *33:19 *33:21 *68:05, 68:20 *68:26 *68:45 *80:01-80:02				
4	5	5	5	5	5	5	5	6	6	6	6	6	6	6	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	Well No.		
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	HLA-A allele

Lot No.: **78M**

Lot-specific information

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<b>Well No.</b>									1 1 1	1 1 1 1	1 1 1 2	2 2 2 2	2 2 2 2	2 3 3 3	3 3 3 3	3 3 3 4	4 4 4 4	4 4 4 4		
<b>HLA-A allele</b>	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
<b>B*07:64, B*15:12, B*15:19</b>																				
<b>B*18:27</b>	+																			
<b>B*18:38</b>																				
<b>C*12:37</b>																				
<b>Well No.</b>									1 1 1	1 1 1 1	1 1 1 2	2 2 2 2	2 2 2 2	2 3 3 3	3 3 3 3	3 3 3 4	4 4 4 4	4 4 4 4		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

<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\*24 subtyping.

In addition, wells number 3, 9, 15, 21 to 24, 26 to 31, 34, 35, 38, 39, 43, 44, 47, 50 to 52, 60 to 62, 66, 68, 71, 77, 78, 83 and 90 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 sequence of the A\*2401 has been shown to be in error.

The sequence of the A\*2412 allele has been shown to be identical to A\*24:08.

The A\*2416 allele has been renamed to A\*31:08.

The A\*2465 allele has been renamed to A\*24:13:02.

<sup>3</sup>The A\*24:37 and 24:119 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 31.

The A\*24:49 and 24:126 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 38.

The A\*24:81 and 24:134 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 70.

The A\*24:82 and 24:128 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 71.

The A\*24:101 and 24:111 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 83.

The A\*24:102 and 24:103 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 84.

The A\*24:104 and 24:117 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 85.

The A\*24:105 and 24:121 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 86.

The A\*24:106 and 24:136 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 87.

<sup>4</sup>Primer mix 11: Specific PCR fragment of 200 bp in the A\* 24:08, 24:42 and 24:89 and in the A\*02:76 and 30:22 alleles. Specific PCR fragment of 245 bp in the A\*24:61 allele.

Primer mix 15: Specific PCR fragment of 105 bp in the A\* \*24:19, 24:44, 24:100 and 24:109

alleles. Specific PCR fragment of 385 bp in the A\* 24:14-24:15, 24:51, 24:53, 24:57 and 24:92 and in the A\*02:46, 02:48, 02:70, 02:129, 03:30, 30:07, 31:08, 32:05 and 33:21 alleles.

Primer mix 26: Specific PCR fragment of 90 bp in the A\*24:96 allele. Specific PCR fragment of 220 bp in the A\*24:22 allele.

Primer mix 27: Specific PCR fragment of 80 bp in the A\*24:32 and A\*32:05 alleles. Specific PCR fragment of 370 bp in the A\*24:14 and in the A\*02:46, 02:48, 02:70 and 02:129 alleles.

Primer mix 30: Specific PCR fragment of 125 bp in the A\*24:21:01-24:21:02 and in the A\*23:03:01-23:03:02, 29:07 and 31:29 and in the B\*18:27 alleles. Specific PCR fragment of 200 bp in the A\*24:59 allele.

Primer mix 31: Specific PCR fragment of 155 bp in the A\*24:37 allele. Specific PCR fragment of 235 bp in the A\*24:04, 24:109, 24:119 and 24:129 and in the A\*01:02, 01:20 and 26:16 alleles.

Primer mix 38: Specific PCR fragment of 145 bp in the A\*24:49 allele. Specific PCR fragment of 170 bp in the A\*24:137 allele. Specific PCR fragment of 230 bp in the A\*24:126 allele.

Primer mix 41: Specific PCR fragment of 200 bp in the A\*24:26 and 24:62 and in the A\*01:39, 26:29, 26:49, 31:05, 32:13, 33:10 and 66:10 alleles. Specific PCR fragment of 240 bp in the A\*24:118 and 24:132N alleles.

Lot No.: **78M**

Lot-specific information

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Lot-specific information																								Well No.											
HLA-A allele																																			
4	5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	<i>B*07:64, B*15:12, B*15:19</i>
																																			<i>B*18:27</i>
																																			<i>B*18:38</i>
																																			<i>C*12:37</i>
4	5	5	5	5	5	5	5	6	6	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	Well No.

Primer mix 45: Specific PCR fragment of 200 bp in the A\*24:113 allele. Specific PCR fragment of 245 bp in the A\*24:14, 24:52 and 24:132N and in the A\*01:20, 01:66, 02:19, 02:36-02:37, 02:54, 02:255, 26:29, 26:49 and 66:10 and in the B\*07:64, B\*15:12 and B\*15:19 alleles.

Primer mix 47: Specific PCR fragment of 200 bp in the A\*24:18, 24:56 and 24:123 alleles. Specific PCR fragment of 410 bp in the A\*24:26 and in the A\*03:30, 30:07, 31:08 and 32:05 alleles.

Primer mix 49: Specific PCR fragment of 215 bp in the A\*24:91 allele. Specific PCR fragment of 245 bp in the A\*24:23 allele.

Primer mix 51: Specific PCR fragment of 165 bp in the A\*24:140 allele. Specific PCR fragment of 215 bp in the A\*24:38 allele.

Primer mix 59: Specific PCR fragment of 230 bp in the A\*24:143 allele. Specific PCR fragment of 255 bp in the A\*24:68 allele. Specific PCR fragment of 285 bp in the A\*24:127 allele.

Primer mix 61: Specific PCR fragment of 105 bp in the A\*24:70 allele. Specific PCR fragment of 280 bp in the A\*24:127 and 24:141 alleles.

Primer mix 64: Specific PCR fragment of 115 bp in the A\*24:124 and in the A\*31:07 and 31:10 alleles. Specific PCR fragment of 170 bp in the A\*24:74 allele.

Primer mix 65: Specific PCR fragment of 80 bp in the A\*24:75 allele. Specific PCR fragment of 235 bp in the A\*24:90N and the A\*02:88N alleles.

Primer mix 68: Specific PCR fragment of 230 bp in the A\*24:143 allele. Specific PCR fragment of 285 bp in the A\*24:78 and 24:141 alleles.

Primer mix 70: Specific PCR fragment of 110 bp in the A\*24:134 allele. Specific PCR fragment of 250 bp in the A\*24:81 allele.

Primer mix 71: Specific PCR fragment of 130 bp in the A\*24:128 allele. Specific PCR fragment of 260 bp in the A\*24:82 and in the A\*29:13, 31:07-31:08 and 31:10 alleles.

Primer mix 73: Specific PCR fragment of 100 bp in the A\*24:84N allele. Specific PCR fragment of 170 bp in the A\*24:131 and 24:138 and in the A\*02:17:01-02:17:02, 02:108 and 02:110 alleles.

Primer mix 76: Specific PCR fragment of 170 bp in the A\*24:76 allele. Specific PCR fragment of 260 bp in the A\*24:98 allele.

Primer mix 77: Specific PCR fragment of 145 bp in the A\*24:122 allele. Specific PCR fragment of 210 bp in the A\*24:06, 24:87 and 24:138 and in the A\*23:02 alleles.

Primer mix 80: Specific PCR fragment of 165 bp in the A\*24:140 allele. Specific PCR fragment of 220 bp in the A\*24:95 allele.

Primer mix 81: Specific PCR fragment of 100 bp in the A\*24:139 allele. Specific PCR fragment of 215 bp in the A\*24:97 and 24:133 alleles.

Primer mix 82: Specific PCR fragment of 185 bp in the A\*24:99 and 24:130 alleles. Specific PCR fragment of 225 bp in the A\*24:125 allele.

Primer mix 83: Specific PCR fragment of 135 bp in the A\*24:111 allele. Specific PCR fragment of 275 bp in the A\*24:101 allele.

Primer mix 84: Specific PCR fragment of 95 bp in the A\*24:103 allele. Specific PCR fragment of 210 bp in the A\*24:107 allele. Specific PCR fragment of 290 bp in the A\*24:102 allele.

Primer mix 85: Specific PCR fragment of 145 bp in the A\*24:117 allele. Specific PCR fragment of 210 bp in the A\*24:104 and in the A\*03:30 and 32:05 alleles.

Primer mix 86: Specific PCR fragment of 190 bp in the A\*24:121 allele. Specific PCR fragment of 255 bp in the A\*24:105 allele.

Primer mix 87: Specific PCR fragment of 90 bp in the A\*24:17, 24:41, 24:62 and 24:106 and in the A\*29:07 and 31:29 alleles. Specific PCR fragment of 120 bp in the A\*24:110 allele. Specific PCR fragment of 195 bp in the A\*24:136 alleles.

Primer mix 89: Specific PCR fragment of 75 bp in the A\*24:07, 24:108 and 24:131 and in the A\* 23:13 alleles. Specific PCR fragment of 270 bp in the A\*24:112 allele.

<sup>5</sup>Modified sequence as of allele database 3.7.0: A\*24:142 corrected at positions 124-5. As a consequence, the A\*24:142 allele is not amplified by primer mixes 35 and 80.

'w', might be weakly amplified.

## Primers

<b>Well No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>5'-primer(s)<sup>1</sup></b>	<b>650</b> 5'-CCC 3'	<b>368</b> 5'-gTT 3'	<b>368</b> 5'-gTT 3'	<b>368</b> 5'-gTT 3'	<b>368</b> 5'-gTT 3'	<b>368</b> 5'-gTT 3'	<b>317</b> 5'-gCT 3'	<b>265</b> 5'-CAg 3'	<b>98</b> 5'-CTC 3'	<b>282</b> 5'-CAC 3'	<b>98</b> 5'-CTC 3'	<b>28</b> 5'-TCg 3'
										<b>282</b> 5'-CAT 3'		
<b>3'-primer(s)<sup>2</sup></b>	<b>819</b> 5'-ggT 3'	<b>570</b> 5'-CAC 3'	<b>539</b> 5'-TCT 3'	<b>538</b> 5'-CAA 3'	<b>502</b> 5'-CTT 3'	<b>502</b> 5'-CTg 3'	<b>368</b> 5'-CAA 3'	<b>299</b> 5'-TCg 3'	<b>282</b> 5'-gAC 3'	<b>368</b> 5'-CAA 3'	<b>256</b> 5'-CCC 3'	<b>92</b> 5'-AAC 3'
				<b>538</b> 5'-CCA 3'					<b>282</b> 5'-gAC 3'		<b>303</b> 5'-AgT 3'	
				<b>555</b> 5'-CCA 3'								
<b>Well No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>Well No.</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>
<b>5'-primer(s)<sup>1</sup></b>	<b>453</b> 5'-AAA 3'	<b>678</b> 5'-AgA 3'	<b>265</b> 5'-CAg 3'	<b>368</b> 5'-gTT 3'	<b>368</b> 5'-gTT 3'	<b>2<sup>nd</sup> I</b> 5'-CgA 3'	<b>678</b> 5'-AgA 3'	<b>3<sup>rd</sup> I</b> 5'-ATA 3'	<b>144</b> 5'-gCC 3'	<b>485</b> 5'-CAg 3'	<b>144</b> 5'-gCC 3'	<b>98</b> 5'-CTC 3'
<b>3'-primer(s)<sup>2</sup></b>	<b>570</b> 5'-CCg 3'	<b>742</b> 5'-CTA 3'	<b>320</b> 5'-AgA 3'	<b>413</b> 5'-gCC 3'	<b>559</b> 5'-CCg 3'	<b>570</b> 5'-CCg 3'	<b>831</b> 5'-TCC 3'	<b>621</b> 5'-ggg 3'	<b>259</b> 5'-CTg 3'	<b>570</b> 5'-CCg 3'	<b>292</b> 5'-gTg 3'	<b>299</b> 5'-CCA 3'
	<b>570</b> 5'-CAg 3'		<b>341</b> 5'-CgT 3'		<b>559</b> 5'-CCg 3'						<b>292</b> 5'-gTg 3'	
			<b>368</b> 5'-CAT 3'									
<b>Well No.</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>
<b>Well No.</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>
<b>5'-primer(s)<sup>1</sup></b>	<b>368</b> 5'-gTT 3'	<b>368</b> 5'-gTT 3'	<b>265</b> 5'-CAg 3'	<b>98</b> 5'-CTC 3'	<b>98</b> 5'-CTC 3'	<b>368</b> 5'-gTT 3'	<b>98</b> 5'-CTC 3'	<b>385</b> 5'-ggC 3'	<b>368</b> 5'-gTT 3'	<b>98</b> 5'-CTC 3'	<b>98</b> 5'-CTT 3'	<b>242</b> 5'-gCT 3'
											<b>105</b> 5'-Tgg 3'	<b>243</b> 5'-CCT 3'
											<b>125</b> 5'-CgC 3'	
<b>3'-primer(s)<sup>2</sup></b>	<b>527</b> 5'-CCT 3'	<b>419</b> 5'-CgA 3'	<b>302</b> 5'-ggC 3'	<b>214</b> 5'-CCA 3'	<b>265</b> 5'-CCg 3'	<b>453</b> 5'-TCg 3'	<b>212</b> 5'-gCA 3'	<b>570</b> 5'-CCg 3'	<b>427</b> 5'-gTA 3'	<b>250</b> 5'-CA 3'	<b>265</b> 5'-CCC 3'	<b>317</b> 5'-ggA 3'
	<b>539</b> 5'-TCA 3'	<b>545</b> 5'-AgA 3'	<b>355</b> 5'-gAC 3'			<b>453</b> 5'-TCA 3'	<b>289</b> 5'-AgC 3'		<b>427</b> 5'-gTT 3'			
	<b>555</b> 5'-CCA 3'					<b>527</b> 5'-CCg 3'	<b>299</b> 5'-TCg 3'					
<b>Well No.</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>
<b>Well No.</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>47</b>	<b>48</b>
<b>5'-primer(s)<sup>1</sup></b>	<b>368</b> 5'-gTT 3'	<b>77</b> 5'-CTT 3'	<b>98</b> 5'-CTA 3'	<b>28</b> 5'-TCg 3'	<b>370</b> 5'-TTA 3'	<b>98</b> 5'-CTC 3'	<b>368</b> 5'-gTT 3'	<b>355</b> 5'-CCA 3'	<b>362</b> 5'-gAg 3'	<b>385</b> 5'-ggC 3'	<b>28</b> 5'-TCC 3'	<b>368</b> 5'-gTT 3'
		<b>134</b> 5'-CCA 3'			<b>375</b> 5'-TgA 3'			<b>363</b> 5'-ATA 3'	<b>362</b> 5'-gAg 3'		<b>115</b> 5'-ggT 3'	
		<b>160</b> 5'-ACT 3'			<b>404</b> 5'-CCA 3'				<b>375</b> 5'-TgA 3'		<b>368</b> 5'-gTT 3'	
					<b>414</b> 5'-CAg 3'				<b>410</b> 5'-gTg 3'			
<b>3'-primer(s)<sup>2</sup></b>	<b>532</b> 5'-CTA 3'	<b>265</b> 5'-CCC 3'	<b>265</b> 5'-CCC 3'	<b>81</b> 5'-gAT 3'	<b>570</b> 5'-CCg 3'	<b>259</b> 5'-gTT 3'	<b>488</b> 5'-CCT 3'	<b>570</b> 5'-CCg 3'	<b>570</b> 5'-CCg 3'	<b>453</b> 5'-TCT 3'	<b>265</b> 5'-CCC 3'	<b>524</b> 5'-CAC 3'
	<b>544</b> 5'-ggg 3'										<b>527</b> 5'-CCT 3'	<b>524</b> 5'-CAC 3'
<b>Well No.</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>47</b>	<b>48</b>

Lot No.: **78M**

Lot-specific information

www.olerup-ssp.com

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
5'-primer(s) <sup>1</sup>	368 5'-gTT 3'	98 5'-CTC 3'	90 5'-AgC 3'	630 5'-AAg 3'	368 5'-gTT 3'	98 5'-CTC 3'	98 5'-CTC 3'	28 5'-TCg 3'	361 5'-AgT 3'	414 5'-gAA 3'	368 5'-gTT 3'	28 5'-TCg 3'
			142 5'-TCA 3'									
3'-primer(s) <sup>2</sup>	542 5'-CTT 3'	290 5'-CAA 3'	265 5'-CCC 3'	831 5'-TCC 3'	559 5'-CTC 3'	221 5'-ACA 3'	295 5'-TCA 3'	127 5'-CTT 3'	453 5'-TCT 3'	570 5'-CCg 3'	559 5'-CAg 3'	131 5'-ggA 3'
	570 5'-CAg 3'										582 5'-TAg 3'	614 5'-TgA 3'
Well No.	49	50	51	52	53	54	55	56	57	58	59	60
Well No.	61	62	63	64	65	66	67	68	69	70	71	72
5'-primer(s) <sup>1</sup>	368 5'-gTT 3'	530 5'-ggT 3'	409 5'-ggC 3'	186 5'-AgA 3'	420 5'-TAg 3'	98 5'-CTC 3'	678 5'-AgA 3'	368 5'-gTT 3'	98 5'-CTC 3'	359 5'-CCT 3'	98 5'-CAC 3'	699 5'-TAA 3'
				243 5'-CCT 3'	575 5'-gCg 3'					499 5'-TCC 3'	228 5'-ATg 3'	
3'-primer(s) <sup>2</sup>	434 5'-CCC 3'	616 5'-CgT 3'	502 5'-CTT 3'	317 5'-ggA 3'	616 5'-CgT 3'	256 5'-CTg 3'	866 5'-gAT 3'	559 5'-CAg 3'	163 5'-Cgg 3'	570 5'-CCg 3'	317 5'-ggA 3'	777 5'-gCA 3'
	605 5'-gCC 3'							605 5'-gCC 3'		614 5'-TgT 3'		
Well No.	61	62	63	64	65	66	67	68	69	70	71	72
Well No.	73	74	75	76	77	78	79	80	81	82	83	84
5'-primer(s) <sup>1</sup>	368 5'-gTT 3'	368 5'-gTT 3'	368 5'-gTT 3'	368 5'-gTT 3'	368 5'-gTT 3'	355 5'-CCA 3'	355 5'-CCg 3'	88 5'-Tgg 3'	368 5'-gTT 3'	368 5'-gTT 3'	98 5'-CTC 3'	368 5'-gTT 3'
				650 5'-CCT 3'			365 5'-gAC 3'	125 5'-CgC 3'				
								142 5'-TCA 3'				
3'-primer(s) <sup>2</sup>	426 5'-TCT 3'	525 5'-ACT 3'	616 5'-CgT 3'	587 5'-CCC 3'	473 5'-CgC 3'	453 5'-TCT 3'	570 5'-CCg 3'	265 5'-CCC 3'	427 5'-gTT 3'	505 5'-gCT 3'	190 5'-ggT 3'	422 5'-AgC 3'
	497 5'-Tgg 3'			777 5'-gCA 3'	539 5'-TCC 3'				536 5'-gCC 3'	517 5'-CgT 3'	333 5'-CTg 3'	538 5'-gTg 3'
									542 5'-CTg 3'	553 5'-CTT 3'		617 5'-CCA 3'
Well No.	73	74	75	76	77	78	79	80	81	82	83	84
Well No.	85	86	87	88	89	90	91	92	93			
5'-primer(s) <sup>1</sup>	98 5'-CTT 3'	358 5'-TCg 3'	368 5'-gTT 3'	134 5'-CCA 3'	89 5'-gAA 3'	368 5'-gTT 3'	397 5'-gCC 3'	626 5'-CCA 3'	89 5'-gAA 3'			
	159 5'-gAA 3'	419 5'-gTC 3'		141 5'-ATg 3'	282 5'-CAg 3'							
3'-primer(s) <sup>2</sup>	265 5'-CCC 3'	570 5'-CCg 3'	418 5'-gTC 3'	265 5'-CCC 3'	317 5'-ggA 3'	421 5'-ggT 3'	570 5'-CCg 3'	777 5'-gCA 3'	317 5'-ggA 3'			
			448 5'-CAC 3'									
			521 5'-ggA 3'									
Well No.	85	86	87	88	89	90	91	92	93			

<sup>1</sup>The nucleotide position, in the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> exons or the 2<sup>nd</sup> or 3<sup>rd</sup> intron, 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>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 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.



CELL LINE VALIDATION SHEET																			
HLA-A*24 SSP subtyping kit																			
				Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				200846501	200846502	200846503	200846504	200846505	200846506	200846507	201078508	201191509	201078510	201191511	200846512	200846513	200846514	201078515	200846516
	IHC 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		-	+	-	+	W	-	-	-	-	+	-	-	-	-	-	-
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		-	+	-	+	W	-	-	-	-	+	-	-	-	-	-	-
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*24 SSP subtyping kit																				
				Lot No.:	Well															
					17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
					200846517	200846518	200846519	200846520	200846521	201191522	200846523	200846524	200846525	200962126	200846527	200846528	201191529	201191530	201078531	200846532
	IHC 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		-	-	-	-	-	-	-	-	-	-	-	-	-			

CELL LINE VALIDATION SHEET																					
HLA-A*24 SSP subtyping kit																					
				Lot No.:	Well																
					33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
					201078533	200846534	201078535	201078536	200846537	201078538	200846539	200846540	201078541	200846542	200846543	200846544	201078545	200846546	201078547	201191548	
	IHC 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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET																			
HLA-A*24 SSP subtyping kit																			
				Well															
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
				200962149	200846550	201078551	200962152	200846553	201078554	200846555	200846556	200846557	200962158	201078559	200846560	201078561	200846562	200846563	201078564
	HLWC cell line	A*	A*	Lot No.:															
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET																				
HLA-A*24 SSP subtyping kit																				
				Lot No.:	Well															
					65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
					200962165	200846566	200846567	201078568	200846569	201078570	201078571	200846572	201078573	200846574	200846575	200962176	201078577	200962178	201078579	201078580
	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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET																
HLA-A*24 SSP subtyping kit																
				Well												
				81	82	83	84	85	86	87	88	89	90	91	92	93
				201191581	201078582	201078583	201078584	201078585	201078586	201078587	201078588	201078589	201078590	201078591	201078592	201078593
			Lot No.:													
	IHC 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\*24 SSP**Product number: **101.422-24u/03u – without *Taq* pol.**Lot number: **78M**Expiry date: **2014-April-01**Number of tests: **24 tests – Product No. 101.422-24u****3 tests – Product No. 101.422-03u**Number of wells per test: **93****Well specifications:**

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2008-465-01	33	2010-785-33	65	2009-621-65
2	2008-465-02	34	2008-465-34	66	2008-465-66
3	2008-465-03	35	2010-785-35	67	2008-465-67
4	2008-465-04	36	2010-785-36	68	2010-785-68
5	2008-465-05	37	2008-465-37	69	2008-465-69
6	2008-465-06	38	2010-785-38	70	2010-785-70
7	2008-465-07	39	2008-465-39	71	2010-785-71
8	2010-785-08	40	2008-465-40	72	2008-465-72
9	2011-915-09	41	2010-785-41	73	2010-785-73
10	2010-785-10	42	2008-465-42	74	2008-465-74
11	2011-915-11	43	2008-465-43	75	2008-465-75
12	2008-465-12	44	2008-465-44	76	2009-621-76
13	2008-465-13	45	2010-785-45	77	2010-785-77
14	2008-465-14	46	2008-465-46	78	2009-621-78
15	2010-785-15	47	2010-785-47	79	2010-785-79
16	2008-465-16	48	2011-915-48	80	2010-785-80
17	2008-465-17	49	2009-621-49	81	2011-915-81
18	2008-465-18	50	2008-465-50	82	2010-785-82
19	2008-465-19	51	2010-785-51	83	2010-785-83
20	2008-465-20	52	2009-621-52	84	2010-785-84
21	2008-465-21	53	2008-465-53	85	2010-785-85
22	2011-915-22	54	2010-785-54	86	2010-785-86
23	2008-465-23	55	2008-465-55	87	2010-785-87
24	2008-465-24	56	2008-465-56	88	2010-785-88
25	2008-465-25	57	2008-465-57	89	2010-785-89
26	2009-621-26	58	2009-621-58	90	2010-785-90
27	2008-465-27	59	2010-785-59	91	2010-785-91
28	2008-465-28	60	2008-465-60	92	2010-785-92
29	2011-915-29	61	2010-785-61	93	2010-785-93
30	2011-915-30	62	2008-465-62		
31	2010-785-31	63	2008-465-63		
32	2008-465-32	64	2010-785-64		

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

No DNAs carrying the alleles to be amplified by primer solutions 8, 11, 14, 21, 22, 26 to 29, 33 to 36, 38 to 43, 45, 47, 49 to 53, 55 to 72, 74 to 77, 79 to 86, 88, 90, 92 and 93 were available. The specificities of the primers in primer solutions 8, 11, 26, 27, 29, 36, 38, 39, 41, 42, 45, 47, 51, 53, 56 to 59, 63, 64, 68, 71, 76, 77, 79, 80, 82, 84, 85, 88 and 93 were tested by separately adding one or two additional 5'-primers, respectively one or two additional 3'-primers.

In primer solutions 14, 21, 28, 33, 34, 40, 43, 49, 50, 55, 60, 61, 66, 67, 69, 74, 75, 81, 83 and 90 it was only possible to test the 5' primer, the 3'-primers were not possible to test.

In primer solutions 22, 35, 52, 62, 65, 70, 72, 86 and 92 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer solution 10, 36, 38, 41, 45, 47, 51, 64, 71, 76, 79, 80, 85 and 88 one or more 5'-primers were not possible to test, and in primer solutions 4, 11, 13, 15, 23, 37, 59, 68, 76, 77, 82, 84 and 87 one or two 3'-primers were not possible to test.

Additional primers in primer solutions 4, 15, 25, 30 and 89 were tested by separately adding additional 5'-primers or 3'-primers.

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

**Date of approval:** 2012-January-24

**Approved by:**

## Production Quality Control

## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-A\*24  
**Product number:** 101.422-24u/03u  
**Lot number:** 78M

**Intended use:** HLA-A\*24 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.

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-24

Ann-Cathrin Jareman  
Head of QA and Regulatory Affairs









Lot No.: **78M**

Lot-specific information

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