

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: **97N**

Lot-specific Information

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## **Olerup SSP<sup>®</sup> HLA-A\*03**

<b>Product number:</b>	<b>101.413-24/04 – including <i>Taq</i> pol. 101.413-24u/04u – without <i>Taq</i> pol.</b>
<b>Lot number:</b>	<b>97N</b>
<b>Expiry date:</b>	<b>2015-January-01</b>
<b>Number of tests:</b>	<b>24 tests – Product No. 101.413-24/24u 4 tests – Product No. 101.413-04/04u</b>
<b>Number of wells per test:</b>	<b>64</b>
<b>Storage - pre-aliquoted primers:</b>	<b>dark at -20°C</b>
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

**This Product Description is only valid for Lot No. 97N.**

### **CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP<sup>®</sup>* HLA-A\*03 Lot (38M)**

The HLA-A\*03 kit is updated for new alleles to enable separation of:

- Confirmed<sup>1</sup> alleles as listed in the IMGT/HLA database
- Polymorphisms in exons outside of the region encoding the peptide binding domain
- Null and Alternatively expressed alleles

Sixteen wells have been added to the HLA-A\*03 kit, wells **49 to 64**.

The Lot-specific information for HLA-A\*03 including and without *Taq* polymerase is now described in one common Product Insert.

<sup>1</sup>As described in section Uniquely Identified Alleles.

The HLA-A\*03 specificity and interpretation tables have been updated for the HLA-A alleles described since the previous *Olerup SSP<sup>®</sup>* HLA-A\*03 lot was made (**Lot No. 38M**).

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

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Well	5'-primer	3'-primer	rationale
6	-	Added	3'-primer added for the A*03:04:02 allele.
21	-	Added	3'-primer added for the A*03:102 allele.
26	Modified	Added	Modified 5'-primer, 3'-primer added for the A*03:93 allele.
30	-	Added	3'-primer added for the A*03:102 allele.
31	Added	-	5'-primer added for the A*03:143 allele.
32	-	Added	3'-primer added for the A*03:91N allele.
33	-	Added	3'-primer added for the A*03:93 allele.
36	-	Added	3'-primer added for the A*03:81 allele.
37	-	Added	3'-primer added for the A*03:81 allele.
38	-	Added	3'-primer added for the A*03:79 allele.
42	Added	-	5'-primer added for the A*03:143 allele.
44	-	Added	3'-primer added for the A*03:79 allele.
45	Added	Added	Primer pair added for the A*03:91N allele.
49	New	New	New primer pair for the A*03:78 allele.
50	New	New	New primer pair for the A*03:86 allele.
51	New	New	New primer pair for the A*03:87 allele.
52	New	New	New primer pair for the A*03:96 allele.
53	New	New	New primer pair for the A*03:104 allele.
54	New	New	New primer pair for the A*03:111 allele.
55	New	New	New primer pair for the A*03:112 allele.
56	New	New	New primer pair for the A*03:113 allele.
57	New	New	New primer pairs for the A*03:118 and A*03:134 alleles.
58	New	New	New primer pair for the A*03:127 allele.
59	New	New	New primer pair for the A*03:128 allele.
60	New	New	New primer pair for the A*03:129N allele.
61	New	New	New primer pair for the A*03:130 allele.
62	New	New	New primer pair for the A*03:132 allele.
63	New	New	New primer pairs for the A*03:123 and A*03:133 alleles.
64	New	New	New primer pair for the A*03:97 allele.

Change in revision R01 compared to R00:

1. Primer mixes 19, 42 and 60 may give rise to unspecific amplifications. This has been revised in the foot notes to the Specificity Table.
2. The HLA-A\*03:01:02 and A\*34:02:02 alleles are not amplified by primer mix 3. This has been revised in the Specificity and Interpretation Tables.

Change in revision R02 compared to R01:

1. Primer mix 28 does not amplify the A\*03:26 and the A\*11:77 alleles. Thus, this lot of the HLA-A\*03 subtyping kit cannot distinguish the A\*03:26 and the A\*03:01:01:01, 03:01:01:03-03:01:01:03, 03:01:03-03:01:07, 03:01:09-03:01:11, 03:01:13, 03:01:15-03:01:22 and 03:01:24-03:01:33 alleles.

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## PRODUCT DESCRIPTION

### HLA-A\*03 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the A\*03:01 to A\*03:143 alleles.

#### PLATE LAYOUT

Each test consists of 64 PCR reactions in a 64 well PCR plate.

<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>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>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>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>49</b>	<b>50</b>	<b>51</b>	<b>52</b>	<b>53</b>	<b>54</b>	<b>55</b>	<b>56</b>
<b>57</b>	<b>58</b>	<b>59</b>	<b>60</b>	<b>61</b>	<b>62</b>	<b>63</b>	<b>64</b>

The 64 well cut PCR plate is marked with 'HLA-A\*03' in silver/gray ink.

Well No. 1 is marked with the Lot No. '97N'.

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.

#### INTERPRETATION

The interpretation of HLA-A\*03 SSP subtypings will be influenced by most A\*01, most A\*02, the A\*11, most A\*23, most A\*24, the A\*25:03, eight A\*26, the A\*29, most A\*30, most A\*31, most A\*32, most A\*33, the A\*34, the A\*36, most A\*66, most A\*68, the A\*69:01, the A\*74 and the A\*80 alleles when present on the other haplotype. In addition, the C\*07:35 and C\*08:48 alleles are amplified by primer mix 46 and the C\*07:86 allele is amplified by primer mix 48.

#### UNIQUELY IDENTIFIED ALLELES

All the HLA-A\*03 alleles, i.e. **A\*03:01 to A\*03:143**, recognized by the HLA Nomenclature Committee in April 2012<sup>1</sup> will be amplified by the primers in the HLA-A\*03 subtyping kit<sup>2,3</sup>.

The HLA-A\*03 kit enables separation of the confirmed HLA-A\*03 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-A\*03 alleles is listed below.

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The HLA-A\*03 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles

The HLA-A\*03 subtyping kit cannot distinguish following silent mutations: the A\*03:01:01:01, 03:01:01:03-03:01:07, 03:01:09-03:01:11, 03:01:13, 03:01:15-03:01:22 and 03:01:24-03:01:33 alleles, the A\*03:01:12 and 03:01:23 alleles, the A\*03:02:01-03:02:03 alleles, the \*03:04:01-03:04:02 alleles, the A\*03:22:01-03:22:02 alleles and the A\*03:23:01-03:23:02 alleles.

The A\*03:16 and A\*03:61 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 20.

The A\*03:17 and A\*03:74 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 21.

The A\*03:20, and A\*03:47 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 43.

The A\*03:22:01-03:22:02 and A\*03:103 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 23.

The A\*03:25 and A\*03:71 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 27.

The A\*03:27 and A\*03:49 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 30.

The A\*03:33 and A\*03:70 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 36.

The A\*03:38 and A\*03:68N alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 41.

The A\*03:44 and A\*03:53 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 46.

The A\*03:118 and A\*03:134 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 57.

<sup>1</sup>HLA-A alleles listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

<sup>2</sup>The HLA-A\*03 primer set cannot separate the A\*03:95 and 74:13 alleles. These alleles can be distinguished by the HLA-A low resolution kit and/or the HLA-A\*74 high resolution kit.

<sup>3</sup>This lot of the HLA-A\*03 subtyping kit cannot distinguish the A\*03:26 and the A\*03:01:01:01, 03:01:01:03-03:01:01:03, 03:01:03-03:01:07, 03:01:09-03:01:11, 03:01:13, 03:01:15-03:01:22 and 03:01:24-03:01:33 alleles.

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[www.olerup-ssp.com](http://www.olerup-ssp.com)**ALLELE CONFIRMATION STATUS**

Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
A*03:01:01:01	Confirmed	A*03:14	Unconfirmed	A*03:61	Unconfirmed	A*03:111	Confirmed
A*03:01:01:02N	Confirmed	A*03:15	Unconfirmed	A*03:62	Confirmed	A*03:112	Unconfirmed
A*03:01:01:03	Unconfirmed	A*03:16	Confirmed	A*03:63	Confirmed	A*03:113	Confirmed
A*03:01:02	Unconfirmed	A*03:17:01	Unconfirmed	A*03:64	Unconfirmed	A*03:114	Unconfirmed
A*03:01:03	Confirmed	A*03:17:02	Unconfirmed	A*03:65	Confirmed	A*03:115	Unconfirmed
A*03:01:04	Confirmed	A*03:18	Unconfirmed	A*03:66	Confirmed	A*03:116	Unconfirmed
A*03:01:05	Confirmed	A*03:19	Unconfirmed	A*03:67	Unconfirmed	A*03:117	Unconfirmed
A*03:01:06	Confirmed	A*03:20	Unconfirmed	A*03:68N	Confirmed	A*03:118	Unconfirmed
A*03:01:07	Unconfirmed	A*03:21N	Unconfirmed	A*03:69N	Confirmed	A*03:119	Unconfirmed
A*03:01:08	Unconfirmed	A*03:22:01	Confirmed	A*03:70	Unconfirmed	A*03:120	Unconfirmed
A*03:01:09	Unconfirmed	A*03:22:02	Confirmed	A*03:71	Unconfirmed	A*03:121	Unconfirmed
A*03:01:10	Unconfirmed	A*03:23:01	Unconfirmed	A*03:72	Unconfirmed	A*03:122	Unconfirmed
A*03:01:11	Confirmed	A*03:23:02	Unconfirmed	A*03:73	Unconfirmed	A*03:123	Confirmed
A*03:01:12	Confirmed	A*03:24	Unconfirmed	A*03:74	Confirmed	A*03:124	Unconfirmed
A*03:01:13	Unconfirmed	A*03:25	Unconfirmed	A*03:75	Unconfirmed	A*03:125	Unconfirmed
A*03:01:14	Confirmed	A*03:26	Unconfirmed	A*03:76	Confirmed	A*03:126	Unconfirmed
A*03:01:15	Confirmed	A*03:27	Confirmed	A*03:77	Unconfirmed	A*03:127	Confirmed
A*03:01:16	Confirmed	A*03:28	Confirmed	A*03:78	Unconfirmed	A*03:128	Confirmed
A*03:01:17	Confirmed	A*03:29	Unconfirmed	A*03:79	Confirmed	A*03:129N	Unconfirmed
A*03:01:18	Confirmed	A*03:30	Unconfirmed	A*03:80	Unconfirmed	A*03:130	Confirmed
A*03:01:19	Confirmed	A*03:31	Unconfirmed	A*03:81	Confirmed	A*03:131	Unconfirmed
A*03:01:20	Confirmed	A*03:32	Unconfirmed	A*03:82	Unconfirmed	A*03:132	Unconfirmed
A*03:01:21	Confirmed	A*03:33	Confirmed	A*03:83	Unconfirmed	A*03:133	Confirmed
A*03:01:22	Unconfirmed	A*03:34	Confirmed	A*03:84	Unconfirmed	A*03:134	Unconfirmed
A*03:01:23	Unconfirmed	A*03:35	Unconfirmed	A*03:85	Unconfirmed	A*03:135	Unconfirmed
A*03:01:24	Unconfirmed	A*03:36N	Unconfirmed	A*03:86	Confirmed	A*03:136	Unconfirmed
A*03:01:25	Unconfirmed	A*03:37	Unconfirmed	A*03:87	Confirmed	A*03:137	Unconfirmed
A*03:01:26	Unconfirmed	A*03:38	Confirmed	A*03:88	Confirmed	A*03:138	Unconfirmed
A*03:01:27	Unconfirmed	A*03:39	Unconfirmed	A*03:89	Unconfirmed	A*03:139	Unconfirmed
A*03:01:28	Confirmed	A*03:40	Unconfirmed	A*03:90	Unconfirmed	A*03:140	Unconfirmed
A*03:01:29	Unconfirmed	A*03:41	Unconfirmed	A*03:91N	Confirmed	A*03:141	Unconfirmed
A*03:01:30	Unconfirmed	A*03:42	Unconfirmed	A*03:92	Unconfirmed	A*03:142	Unconfirmed
A*03:01:31	Unconfirmed	A*03:43	Unconfirmed	A*03:93	Confirmed	A*03:143	Confirmed
A*03:01:32	Unconfirmed	A*03:44	Unconfirmed	A*03:94	Unconfirmed		
A*03:01:33	Confirmed	A*03:45	Unconfirmed	A*03:95	Unconfirmed		
A*03:02:01	Confirmed	A*03:46	Unconfirmed	A*03:96	Confirmed		
A*03:02:02	Unconfirmed	A*03:47	Confirmed	A*03:97	Confirmed		
A*03:02:03	Unconfirmed	A*03:48	Confirmed	A*03:98	Unconfirmed		
A*03:03N	Unconfirmed	A*03:49	Confirmed	A*03:99	Unconfirmed		
A*03:04:01	Unconfirmed	A*03:50	Confirmed	A*03:100	Unconfirmed		
A*03:04:02	Unconfirmed	A*03:51	Confirmed	A*03:101	Unconfirmed		
A*03:05	Confirmed	A*03:52	Unconfirmed	A*03:102	Confirmed		
A*03:06	Unconfirmed	A*03:53	Confirmed	A*03:103	Unconfirmed		
A*03:07	Confirmed	A*03:54	Unconfirmed	A*03:104	Confirmed		
A*03:08	Confirmed	A*03:55	Unconfirmed	A*03:105	Unconfirmed		
A*03:09	Confirmed	A*03:56	Confirmed	A*03:106	Unconfirmed		
A*03:10	Unconfirmed	A*03:57	Confirmed	A*03:107	Unconfirmed		
A*03:11N	Unconfirmed	A*03:58	Unconfirmed	A*03:108	Confirmed		
A*03:12	Unconfirmed	A*03:59	Unconfirmed	A*03:109	Unconfirmed		
A*03:13	Unconfirmed	A*03:60	Unconfirmed	A*03:110	Unconfirmed		

<sup>1</sup> Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-April-12, release 3.8.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

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### **RESOLUTION IN HOMO- AND HETEROZYGOTES**

A total of 182 alleles generate 102 amplification patterns that can be combined in 5253 homozygous and heterozygous combinations. 3052 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.

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[www.olerup-ssp.com](http://www.olerup-ssp.com)**SPECIFICITY TABLE****HLA-A\*03 SSP subtyping**

Specificities and sizes of the PCR products of the 64 primer mixes used for  
HLA-A\*03 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-A*03 alleles <sup>3</sup>	Other amplified HLA-A alleles <sup>4</sup>
<b>1</b>	235 bp	<b>800 bp</b>	*03:01:01:01-03:04:02, 03:06-03:09, 03:11N- 03:17, 03:19-03:39, 03:41, 03:43-03:74, 03:76-03:94, 03:96-03:97, 03:99-03:104, 03:106- 03:121, 03:123-03:134, 03:136-03:143	*32:04, 36:02
<b>2<sup>6</sup></b>	225 bp	1070 bp	*03:01:01:01-03:01:11, 03:01:12 <sup>w</sup> , 03:01:13- 03:01:22, 03:01:23 <sup>w</sup> , 03:01:24-03:07, 03:09- 03:11N, 03:13-03:31, 03:33-03:35, 03:37-03:40, 03:42-03:56, 03:58, 03:60-03:71, 03:73-03:87, 03:90-03:106, 03:109- 03:110, 03:112-03:141, 03:143	*01:13, 02:34 <sup>w</sup> -02:35:03 <sup>w</sup> , 02:56:01 <sup>w</sup> -02:56:02 <sup>w</sup> , 02:62 <sup>w</sup> , 02:103 <sup>w</sup> , 30:55, 34:08, 68:71, 74:13
<b>3<sup>6</sup></b>	205 bp	1070 bp	*03:01:01:01-03:01:01:03, 03:01:03-03:01:13, 03:01:15-03:01:33, 03:03N-03:06, 03:08- 03:09, 03:11N-03:17, 03:19-03:30, 03:33-03:41, 03:43-03:53, 03:55-03:63, 03:67-03:72, 03:74, 03:77- 03:81, 03:83-03:89, 03:91N-03:94, 03:96- 03:105, 03:107-03:112, 03:114-03:126, 03:128- 03:132, 03:134, 03:136- 03:139, 03:141-03:143	*11:25, 32:04, 34:02:01, 34:02:03- 34:04, 34:07-34:09
<b>4</b>	215 bp	<b>800 bp</b>	*03:02:01-03:02:03, 03:10, 03:31-03:32, 03:65, 03:69N, 03:73, 03:76, 03:82, 03:90,	*01:12, 01:19, 01:25, 11:01:01- 11:07, 11:09-11:22, 11:27, 11:29- 11:30, 11:32-11:34, 11:36-11:43, 11:45-11:49, 11:51-11:52Q,



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			03:106, 03:113	11:54-11:93, 11:95-11:100, 11:102-11:117, 11:119-11:122, 24:51, 24:92
<b>5</b>	185 bp	<b>800 bp</b>	*03:03N	
<b>6</b>	275 bp	1070 bp	*03:04:01-03:04:02	*01:86, 30:34
<b>7</b>	225 bp	1070 bp	*03:06, 03:69N	
<b>8</b>	240 bp	1070 bp	*03:01:01:01-03:01:07, 03:01:09-03:11N, 03:13- 03:40, 03:42-03:56, 03:58-03:87, 03:89- 03:106, 03:108, 03:110- 03:143	*01:13, 01:28, 02:01:01:01-02:01:15, 02:01:17-02:01:19, 02:01:21- 02:01:48, 02:01:50-02:04, 02:07:01- 02:07:02, 02:09, 02:11:01-02:13, 02:15N-02:20:02, 02:22:01- 02:22:02, 02:24:01-02:27, 02:29- 02:40, 02:42-02:43N, 02:45-02:50, 02:52-02:53N, 02:55-02:56:02, 02:58-02:60:02, 02:62-02:71, 02:73- 02:77, 02:80, 02:82N-02:83N, 02:85- 02:86, 02:88N-02:90, 02:92- 02:97:02, 02:101:01-02:105, 02:107, 02:109-02:111, 02:113N-02:121, 02:123, 02:125N, 02:128, 02:130- 02:135, 02:138-02:141, 02:145, 02:147-02:153, 02:155-02:168, 02:171:01-02:171:02, 02:173- 02:177, 02:181-02:183, 02:185- 02:228, 02:230-02:231, 02:233- 02:243, 02:245-02:246, 02:249- 02:258, 02:260-02:270, 02:272- 02:277, 02:279-02:285, 02:287- 02:289, 02:291-02:294, 02:296- 02:299, 02:301N-02:309, 02:311- 02:323, 02:325-02:327, 02:329, 02:332, 02:334-02:336, 02:338- 02:343, 02:345-02:354, 02:356N- 02:357, 11:43, 11:88, 24:19, 24:28, 24:44, 24:89, 29:19, 30:01:01- 30:01:05, 30:11:01-30:11:02, 30:13- 30:20, 30:23-30:24, 30:26, 30:30- 30:31, 30:35-30:44, 30:46, 30:48- 30:49, 30:52-30:56, 30:58-30:60, 30:62-30:63, 31:01:02-31:01:05, 31:01:07-31:06, 31:09, 31:11-31:32, 31:34-31:62, 33:01:01-33:01:06, 33:03:01-33:03:05, 33:03:07-33:12, 33:14-33:16, 33:18-33:47, 33:49- 33:50, 33:52-33:59, 34:08, 68:29, 68:45, 68:71, 74:01-74:09, 74:11- 74:15, 80:02

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<b>9</b>	230 bp	1070 bp	*03:05, 03:10, 03:42, 03:72	*02:156, 02:338, 11:04, 11:35, 11:88, 24:19, 30:01:01-30:04:02, 30:06-30:20, 30:22-30:27N, 30:29- 30:44, 30:46, 30:48-30:63, 31:03- 31:04, 33:49, 34:02:01-34:04, 34:07- 34:09, 36:01, 36:05, 68:45
<b>10<sup>5,9</sup></b>	65 bp, 205 bp	<b>800 bp</b>	*03:02:01-03:02:03, 03:07, 03:10, 03:31- 03:32, 03:42, 03:60, 03:73, 03:76, 03:82, 03:90, 03:106, 03:113, 03:133	*01:12, 01:19, 01:21, 02:156, 02:338, 11:31, 11:35, 11:60, 24:92, 30:04:01-30:04:02, 30:06, 30:09, 30:17, 30:29, 30:46, 31:03-31:04, 33:49
<b>11</b>	225 bp	<b>800 bp</b>	*03:08, 03:32, 03:41, 03:107	*01:01:01:01-01:01:31, 01:01:33- 01:01:45, 01:03-01:04N, 01:06, 01:08-01:12, 01:14-01:16N, 01:18N- 01:19, 01:21-01:33, 01:35-01:42, 01:44-01:94, 01:96-01:103, 01:105- 01:107, 01:109, 02:48, 02:81, 02:90, 02:124, 02:146, 25:03, 26:20, 32:01:01-32:02, 32:03 <sup>w</sup> , 32:04- 32:06, 32:08 <sup>w</sup> , 32:09-32:16, 32:18- 32:26, 32:28-32:41, 36:01-36:05, 74:01-74:04, 74:08-74:12N, 74:14N- 74:15, 80:01 <sup>w</sup> , 80:02
<b>12</b>	190 bp	1070 bp	*03:09, 03:108	*02:01:09, 02:05:05, 02:06:07, 02:50, 02:76:02, 02:122, 11:06, 11:18, 24:28, 24:89, 26:03:01- 26:03:02, 26:06, 26:21, 26:30, 29:19, 33:24, 68:05, 68:15, 68:20, 74:06
<b>13</b>	145 bp	<b>800 bp</b>	*03:01:01:02N	
<b>14<sup>5,10</sup></b>	105 bp, 235 bp	1070 bp	*03:11N, 03:59	
<b>15</b>	225 bp	1070 bp	*03:12, 03:88	*02:78, 11:01:01-11:02:01, 11:02:02 <sup>w</sup> , 11:02:03-11:05, 11:06 <sup>w</sup> , 11:07-11:16, 11:20-11:27, 11:29- 11:39, 11:41-11:42, 11:44, 11:46, 11:48-11:52Q, 11:54-11:77, 11:79- 11:87, 11:89-11:91, 11:93-11:97, 11:99N-11:105, 11:107-11:110, 11:112-11:120, 11:122, 30:08, 34:01:01-34:07, 34:09, 66:01-66:02, 66:04, 66:06-66:10, 66:12-66:14, 66:16, 68:01:01:01-68:02:05, 68:06- 68:14, 68:16-68:19, 68:21:01-68:28, 68:30, 68:32-68:35, 68:37-68:44, 68:47-68:56, 68:58-68:70,

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				68:72-68:83, 68:85-68:88, 69:01
<b>16</b>	275 bp	1070 bp	*03:14	
<b>17<sup>6,7</sup></b>	215 bp	<b>800 bp</b>	*03:01:01:01-03:01:33, 03:03N-03:09, 03:11N- 03:17, 03:19-03:30, 03:33-03:49, 03:51-03:64, 03:67-03:68N, 03:70- 03:72, 03:74, 03:77- 03:81, 03:83-03:89, 03:91N-03:94, 03:96- 03:105, 03:107-03:112, 03:114-03:134, 03:136- 03:143	*01:06, 02:156, 02:338, 11:24:01- 11:25, 11:31, 11:35, 30:01:01-30:03, 30:07-30:16, 30:18-30:20, 30:22- 30:27N, 30:30-30:45, 30:48-30:51, 30:53-30:62, 31:03-31:04, 32:04, 33:49, 34:02:01-34:04, 34:07-34:09, 80:01-80:02
<b>18<sup>5,11</sup></b>	135 bp, 210 bp	1070 bp	*03:13, 03:50, 03:64, 03:66	*01:98, 11:08, 11:44, 30:04:01- 30:04:02, 30:06, 30:17, 30:29, 30:46, 36:02
<b>19<sup>7</sup></b>	230 bp	1070 bp	*03:15, 03:19	
<b>20<sup>5,12</sup></b>	60 bp, 175 bp	1070 bp	*03:16, 03:61	
<b>21<sup>5,13</sup></b>	130 bp, 155 bp, 195 bp	1070 bp	*03:17, 03:74, 03:102	*02:156, 02:338, 11:119, 24:51, 24:92, 30:61
<b>22</b>	250 bp	1070 bp	*03:18, 03:97, 03:122, 03:135	*01:01:01:01-01:02, 01:04N, 01:06- 01:19, 01:21-01:33, 01:35-01:62, 01:64-01:65, 01:67-01:71, 01:74- 01:101, 01:103-01:109, 11:27, 11:38-11:39, 11:94, 24:51, 24:92, 80:01-80:02
<b>23<sup>5,14</sup></b>	95 bp, , 185 bp 210 bp, 240 bp	1070 bp	*03:19, 03:22:01- 03:22:02, 03:56, 03:75, 03:88, 03:99, 03:103	*02:237, 24:18, 36:02
<b>24</b>	470 bp	1070 bp	*03:21N	*01:04N, 11:21N, 23:07N, 24:11N
<b>25</b>	155 bp	1070 bp	*03:23:01-03:23:02	*01:83, 02:01:09, 02:05:05, 02:06:07, 02:11:02, 02:35:03, 02:50, 02:76:02, 02:122, 11:121, 24:08, 24:42, 24:89, 26:07:01-26:07:02, 33:08, 74:04
<b>26</b>	190 bp	1070 bp	*03:24, 03:93	*01:51, 25:03, 32:15, 32:37, 34:08, 68:71, 80:01 <sup>w</sup> -80:02 <sup>w</sup>
<b>27<sup>5,15</sup></b>	95 bp, 145 bp	1070 bp	*03:25, 03:71	
<b>28<sup>8</sup></b>	495 bp	1070 bp	*03:41, 03:63, 03:88	*36:02
<b>29<sup>5</sup></b>	100 bp	1070 bp	*03:01:01:01-03:07, 03:09-03:28, 03:30-03:31,	*02:34-02:35:03, 02:56:01-02:56:02, 02:62, 02:78, 02:103, 11:12, 23:13,

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		03:33, 03:35, 03:37- 03:40, 03:42-03:61, 03:64-03:87, 03:90- 03:106, 03:109-03:143		24:07, 24:24, 24:108, 24:112, 24:131, 29:01:01:01-29:18, 29:21- 29:29, 29:31-29:33, 29:35, 30:01:01- 30:01:05, 30:08, 30:11:01-30:11:02, 30:14L-30:20, 30:23-30:26, 30:30, 30:35-30:43, 30:48-30:49, 30:52- 30:56, 30:58-30:60, 30:62-30:63, 32:17, 34:09, 66:02, 66:12, 66:16, 68:01:01:01-68:02:05, 68:06-68:14, 68:16-68:19, 68:21:01-68:30, 68:32- 68:39, 68:41-68:71, 68:73-68:84, 68:86-68:88, 69:01, 74:13
<b>30</b> <sup>5,16</sup>	130 bp, 155 bp, 210 bp	1070 bp	*03:27, 03:49, 03:102	
<b>31</b> <sup>7,17</sup>	200 bp, 230 bp	<b>800 bp</b>	*03:28, 03:56, 03:88, 03:99, 03:143	*36:02
<b>32</b> <sup>18</sup>	150 bp, 220 bp, 270 bp	1070 bp	*03:29, 03:67, 03:91N	
<b>33</b> <sup>19</sup>	180 bp, 210 bp, 285 bp	1070 bp	*03:30, 03:62, 03:93	*24:104, 32:05, 32:37, 80:01 <sup>w</sup> - 80:02 <sup>w</sup>
<b>34</b> <sup>5,20</sup>	125 bp, 160 bp	1070 bp	*03:31, 03:58	
<b>35</b> <sup>21</sup>	235 bp, 275 bp	1070 bp	*03:32, 03:55	*31:21, 74:07
<b>36</b> <sup>5,22</sup>	120 bp, 160 bp, 210 bp	1070 bp	*03:33, 03:70, 03:81	
<b>37</b> <sup>5,23</sup>	95 bp, 120 bp, 225 bp	1070 bp	*03:34, 03:48, 03:81	
<b>38</b> <sup>24</sup>	165 bp, 195 bp, 250 bp	<b>800 bp</b>	*03:35, 03:73, 03:79	
<b>39</b> <sup>25</sup>	200 bp, 235 bp	1070 bp	*03:36N, 03:45	
<b>40</b>	240 bp	1070 bp	*03:37	
<b>41</b> <sup>26</sup>	185 bp, 275 bp	1070 bp	*03:38, 03:68N	
<b>42</b> <sup>7,27</sup>	190 bp, 220 bp	<b>800 bp</b>	*03:39, 03:143	
<b>43</b> <sup>28</sup>	150 bp, 260 bp	1070 bp	*03:20, 03:47, 03:76	

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<b>44</b> <sup>29</sup>	165 bp, 195 bp, 240 bp	1070 bp	*03:40, 03:51, 03:79	
<b>45</b> <sup>30</sup>	150 bp, 270 bp	1070 bp	*03:43, 03:91N	
<b>46</b> <sup>5,8,31</sup>	110 bp, 190 bp	1070 bp	*03:44, 03:52-03:53	*02:164, 30:30, 31:19, <b>C*07:35,</b> <b>C*08:48</b>
<b>47</b>	240 bp	1070 bp	*03:41, 03:57, 03:107	*01:01:01:01-01:01:03, 01:01:05- 01:01:12, 01:01:14-01:01:28, 01:01:30-01:01:31, 01:01:33- 01:01:34, 01:01:36-01:01:45, 01:03- 01:04N, 01:06, 01:08-01:12, 01:14- 01:19, 01:21-01:23, 01:25-01:27N, 01:29-01:33, 01:35-01:42, 01:44- 01:94, 01:96-01:109, 36:01-36:05, 74:10, 80:01
<b>48</b> <sup>5,32</sup>	70 bp, 110 bp, 145 bp	1070 bp	*03:46, 03:52, 03:54	*31:19, <b>C*07:86</b>
<b>49</b>	545 bp	1070 bp	*03:78	*01:45, 11:108
<b>50</b> <sup>5</sup>	130 bp	1070 bp	*03:86	
<b>51</b>	285 bp	1070 bp	*03:87	*01:101, 11:30
<b>52</b> <sup>5</sup>	85 bp	1070 bp	*03:96	
<b>53</b>	260 bp	1070 bp	*03:104	*33:49
<b>54</b>	240 bp	1070 bp	*03:111	
<b>55</b>	175 bp	<b>800 bp</b>	*03:112	
<b>56</b>	215 bp	1070 bp	*03:113	
<b>57</b> <sup>8,33</sup>	180 bp, 275 bp	1070 bp	*03:118, 03:134	
<b>58</b>	205 bp	1070 bp	*03:127	*01:06, 11:24:02
<b>59</b>	240 bp	1070 bp	*03:128	
<b>60</b> <sup>7</sup>	390 bp	1070 bp	*03:129N	
<b>61</b>	170 bp	1070 bp	*03:130	
<b>62</b>	190 bp	1070 bp	*03:132	
<b>63</b> <sup>34</sup>	175 bp, 200 bp	<b>800 bp</b>	*03:42, 03:123, 03:133	*02:156, 02:338, 11:16, 11:35, 11:57, 11:73, 30:09, 31:03-31:04, 33:49
<b>64</b>	225 bp	1070 bp	*03:18, 03:97, 03:122, 03:135	*02:19, 02:36-02:37, 02:54, 02:255, 23:01:01-23:03:02, 23:05-23:15, 23:17-23:30, 23:32-23:41, 23:44, 23:46-23:51, 24:02:01:01-24:02:04, 24:02:06-24:02:28, 24:02:30- 24:02:56, 24:04-24:09N, 24:11N, 24:13:01-24:14, 24:17, 24:19- 24:21:02, 24:24-24:32, 24:34-

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24:40N, 24:42-24:50, 24:52-24:64,  
 24:66-24:74, 24:76-24:91, 24:93,  
 24:95-24:117, 24:119-24:124,  
 24:126-24:131, 24:133-24:137,  
 24:139-24:166, 24:168-24:199,  
 29:03, 31:05, 33:10, 33:19, 68:26,  
 68:65, 80:01-80:02

<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\*03 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\*03 subtyping.

In addition, wells number 4, 5, 10, 11, 13, 17, 31, 38, 42, 55 and 63 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>For several HLA-A\*03 alleles 4<sup>th</sup> and 5<sup>th</sup> exon or intron nucleotide sequences are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in these regions are conserved within allelic groups.

<sup>4</sup>Due to the sharing of sequence motifs between HLA-A alleles non-HLA-A\*03 alleles will be amplified by primer mixes 1 to 4, 8 to 12, 15, 17, 18, 21 to 26, 28, 29, 31, 33, 35, 46 to 49, 51, 53, 58, 63 and 64. In addition, the C\*07:35 and C\*08:48 alleles are amplified by primer mix 46 and the C\*07:86 allele is amplified by primer mix 48.

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

<sup>6</sup>Primer mix 2, 3 and 17 may give a lower yield of specific PCR product than the other A\*03 primer mixes.

<sup>7</sup>Primer mixes 17, 19, 31, 42 and 60 may give rise to nonspecific amplifications.

<sup>8</sup>Primer mixes 28, 46 and 57 may give rise to primer oligomer formation.

<sup>9</sup>Primer mix 10: Specific PCR fragment of 65 bp in A\*03:60 allele. Specific PCR fragment of 205 bp in the A\*03:02:01-03:02:03, 03:07, 03:10, 03:31-03:32, 03:42, 03:73, 03:76, 03:82, 03:90, 03:106, 03:113 and 03:133 and the A\*01:12, 01:19, 01:21, 02:156, 02:338, 11:31, 11:35, 11:60, 24:92, 30:04:01-30:04:02, 30:06, 30:09, 30:17, 30:29, 30:46, 31:03-31:04 and 33:49 alleles.

<sup>10</sup>Primer mix 14: Specific PCR fragment of 105 bp in the A\*03:11N allele. Specific PCR fragment of 235 bp in the A\*03:59 allele.

<sup>11</sup>Primer mix 18: Specific PCR fragment of 135 bp in the A\*03:13 allele. Specific PCR fragment of 210 bp in the A\*03:50, 03:64 and 03:66 and the A\*01:98, 11:08, 11:44, 30:04:01-30:04:02, 30:06, 30:17, 30:29, 30:46 and 36:02 alleles.



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<sup>12</sup>Primer mix 20: Specific PCR fragment of 60 bp in the A\*03:61 allele. Specific PCR fragment of 175 bp in the A\*03:16 allele.

<sup>13</sup>Primer mix 21: Specific PCR fragment of 130 bp in the A\*03:17 and the A\*02:156, 02:338, 11:119, 24:51, 24:92 and 30:61 alleles. Specific PCR fragment of 155 bp in the A\*03:102 allele. Specific PCR fragment of 195 bp in the A\*03:74 allele.

<sup>14</sup>Primer mix 23: Specific PCR fragment of 95 bp in the A\*03:22:01-03:22:02 alleles. Specific PCR fragment of 185 bp in the A\*03:19 and 03:103 and the A\*02:237 alleles. Specific PCR fragment of 210 bp in the A\*03:56, 03:88 and 03:99 and the A\*36:02 alleles. Specific PCR fragment of 240 bp in the A\*03:75 allele. Specific PCR fragments of 185 and 240 bp in the A\*24:18 allele.

<sup>15</sup>Primer mix 27: Specific PCR fragment of 95 bp in the A\*03:71 allele. Specific PCR fragment of 145 bp in the A\*03:25 allele.

<sup>16</sup>Primer mix 30: Specific PCR fragment of 130 bp in the A\*03:27 allele. Specific PCR fragment of 155 bp in the A\*03:102 allele. Specific PCR fragment of 210 bp in the A\*03:49 allele.

<sup>17</sup>Primer mix 31: Specific PCR fragment of 200 bp in the A\*03:56, 03:88, 03:99 and 03:143 and the A\*36:02 alleles. Specific PCR fragment of 230 bp in the A\*03:28 allele.

<sup>18</sup>Primer mix 32: Specific PCR fragment of 150 bp in the A\*03:67 allele. Specific PCR fragment of 220 bp in the A\*03:29 allele. Specific PCR fragment of 270 bp in the A\*03:91N allele.

<sup>19</sup>Primer mix 33: Specific PCR fragment of 180 bp in the A\*03:93 and the A\*32:37 and 80:01<sup>w</sup>-80:02<sup>w</sup> alleles. Specific PCR fragment of 210 bp in the A\*03:30 and the A\*24:104 and 32:05 alleles. Specific PCR fragment of 285 bp in the A\*03:62 allele.

<sup>20</sup>Primer mix 34: Specific PCR fragment of 125 bp in the A\*03:58 allele. Specific PCR fragment of 160 bp in the A\*03:31 allele.

<sup>21</sup>Primer mix 35: Specific PCR fragment of 235 bp in the A\*03:32 and the A\*31:21 and 74:07 alleles. Specific PCR fragment of 275 bp in the A\*03:55 allele.

<sup>22</sup>Primer mix 36: Specific PCR fragment of 120 bp in the A\*03:81 allele. Specific PCR fragment of 160 bp in the A\*03:33 allele. Specific PCR fragment of 210 bp in the A\*03:70 allele.

<sup>23</sup>Primer mix 37: Specific PCR fragment of 95 bp in the A\*03:48 allele. Specific PCR fragment of 120 bp in the A\*03:81 allele. Specific PCR fragment of 225 bp in the A\*03:34 allele.

<sup>24</sup>Primer mix 38: Specific PCR fragment of 165 bp in the A\*03:35 allele. Specific PCR fragment of 195 bp in the A\*03:79 allele. Specific PCR fragment of 250 bp in the A\*03:73 allele.

<sup>25</sup>Primer mix 39: Specific PCR fragment of 200 bp in the A\*03:36N allele. Specific PCR fragment of 235 bp in the A\*03:45 allele.

<sup>26</sup>Primer mix 41: Specific PCR fragment of 185 bp in the A\*03:38 allele. Specific PCR fragment of 275 bp in the A\*03:68N allele.

<sup>27</sup>Primer mix 42: Specific PCR fragment of 190 bp in the A\*03:143 allele. Specific PCR fragment of 220 bp in the A\*03:39 allele.

<sup>28</sup>Primer mix 43: Specific PCR fragment of 150 bp in the A\*03:20 allele. Specific PCR fragment of 260 bp in the A\*03:47 and 03:76 alleles.

<sup>29</sup>Primer mix 44: Specific PCR fragment of 165 bp in the A\*03:51 allele. Specific PCR fragment of 195 bp in the A\*03:79 allele. Specific PCR fragment of 240 bp in the A\*03:40 allele.

<sup>30</sup>Primer mix 45: Specific PCR fragment of 150 bp in the A\*03:43 allele. Specific PCR fragment of 270 bp in the A\*03:91N allele.

<sup>31</sup>Primer mix 46: Specific PCR fragment of 115 bp in A\*03:44 and 03:52 and the A\*02:164 and 31:19 alleles. Specific PCR fragment of 190 bp in A\*03:53 and the A\*30:30 and in the C\*07:35 and C\*08:48 alleles.

<sup>32</sup>Primer mix 48: Specific PCR fragment of 70 bp in the A\*03:54 allele. Specific PCR fragment of 110 bp in the A\*03:52 and the A\*31:19 alleles. Specific PCR fragment of 145 bp in the A\*03:46 and in the C\*07:86 alleles.

<sup>33</sup>Primer mix 57: Specific PCR fragment of 180 bp in the A\*03:134 allele. Specific PCR fragment of 275 bp in the A\*03:118 allele.

<sup>34</sup>Primer mix 63: Specific PCR fragment of 175 bp in the A\*03:123 and the A\*02:156, 02:338, 11:16, 11:35, 11:57 and 11:73 alleles. Specific PCR fragment of 200 bp in the A\*03:42 and 03:133 and the A\*30:09, 31:03-31:04 and 33:49 alleles.

'w', may be weakly amplified.

101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **97N**

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INTERPRETATION TABLE																																	
HLA-A*03 SSP subtyping																																	
Amplification patterns of the A*03:01 to A*03:143 alleles																																	
	Well <sup>16</sup>																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Length of spec.	235	225	205	215	185	275	225	240	230	65	225	190	145	105	225	275	215	135	230	60	155	130	250	95	470	155	190	95	495	100	130	200	150
PCR product(s)										205				235				210		175	195			240						210		230	220
Length of int. pos. control <sup>1</sup>	800	1070	1070	800	800	1070	1070	1070	1070	800	800	1070	800	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	800	1070	
5'-primer(s) <sup>2</sup>	5'-ATA <sup>3'</sup> 363	5'-CTT <sup>3'</sup> 98	5'-ATA <sup>3'</sup> 363	5'-ATA <sup>3'</sup> 363	5'-Tgg <sup>3'</sup> 382	5'-ATA <sup>3'</sup> 363	5'-ATA <sup>3'</sup> 363	5'-ACA <sup>3'</sup> 102	5'-CTC <sup>3'</sup> 98	5'-ATA <sup>3'</sup> 363	5'-CTT <sup>3'</sup> 98	5'-gCC <sup>3'</sup> 144	5'-ggA <sup>3'</sup> 4 <sup>th</sup> 1	5'-TCC <sup>3'</sup> 28	5'-CTA <sup>3'</sup> 98	5'-CTT <sup>3'</sup> 98	5'-ATA <sup>3'</sup> 363	5'-ATA <sup>3'</sup> 363	5'-gTT <sup>3'</sup> 368	5'-ATA <sup>3'</sup> 363	5'-ATA <sup>3'</sup> 363	5'-ATA <sup>3'</sup> 363	5'-ATA <sup>3'</sup> 363	5'-ATA <sup>3'</sup> 363	5'-ATA <sup>3'</sup> 363	5'-ATA <sup>3'</sup> 363	5'-CTT <sup>3'</sup> 98	5'-gTg <sup>3'</sup> 179	5'-gTg <sup>3'</sup> 179	5'-ATA <sup>3'</sup> 363	5'-AAC <sup>3'</sup> 365	5'-CTT <sup>3'</sup> 98	
3'-primer(s) <sup>3</sup>	5'-Tgg <sup>3'</sup> 557	5'-gAC <sup>3'</sup> 282	5'-CCT <sup>3'</sup> 527	5'-TCT <sup>3'</sup> 539	5'-CCT <sup>3'</sup> 527	5'-CCT <sup>3'</sup> 595	5'-Tgg <sup>3'</sup> 557	5'-CCA <sup>3'</sup> 299	5'-CCC <sup>3'</sup> 555	5'-CCA <sup>3'</sup> 527	5'-gAT <sup>3'</sup> 388	5'-gAg <sup>3'</sup> 282	5'-gTg <sup>3'</sup> 292	5'-TCT <sup>3'</sup> 426	5'-gAC <sup>3'</sup> 282	5'-CTg <sup>3'</sup> 333	5'-TCA <sup>3'</sup> 539	5'-CCA <sup>3'</sup> 455	5'-CCA <sup>3'</sup> 555	5'-gAA <sup>3'</sup> 496	5'-CCC <sup>3'</sup> 479	5'-TCT <sup>3'</sup> 453	5'-CCg <sup>3'</sup> 570	5'-CCA <sup>3'</sup> 555	5'-ggg <sup>3'</sup> 621	5'-CCC <sup>3'</sup> 256	5'-gTT <sup>3'</sup> 259	5'-gAC <sup>3'</sup> 282	5'-ACA <sup>3'</sup> 899	5'-Cgg <sup>3'</sup> 341	5'-gCC <sup>3'</sup> 533	5'-TTT <sup>3'</sup> 327	5'-CCg <sup>3'</sup> 206
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
HLA-A allele <sup>4</sup>																																	





101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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Length of spec.	235	225	205	215	185	275	225	240	230	65	225	190	145	105	225	275	215	135	230	60	130	250	95	470	155	190	95	495	100	130	200	150	
PCR product(s)										205				235				210	135	230	175	155	185	240			145			210	155	230	270
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
HLA-A allele <sup>4</sup>																																	
*03:01:01:01, 03:01:01:03- 03:01:01:03, 03:01:03- 03:01:07, 03:01:09- 03:01:11, 03:01:13, 03:01:15-03:01:22, 03:01:24-03:01:33, 03:26, 03:77, 03:80, 03:83-03:85, 03:92, 03:94, 03:100-03:101, 03:110, 03:114-03:117, 03:119-03:121, 03:124- 03:126, 03:131, 03:136- 03:139, 03:141 <sup>17</sup>	1	2	3					8									17												29				
*03:01:01:02N	1	2	3					8					13				17												29				
*03:01:08, 03:109	1	2	3														17											29					
*03:01:12, 03:01:23	1	w	3					8									17											29					
*03:01:14, 03:01:02, 03:140	1	2						8									17											29					
*03:02:01-03:02:03, 03:82, 03:90, 03:106	1	2		4				8		10																		29					
*03:03N	1	2	3		5			8									17										29						
*03:04:01-03:04:02	1	2	3			6		8									17										29						
*03:05		2	3					8	9								17											29					
*03:06	1	2	3				7	8									17											29					
*03:07	1	2						8		10							17											29					
*03:08	1		3					8			11						17																
*03:09	1	2	3					8				12					17											29					
*03:10		2		4				8	9	10																		29					
*03:11N	1	2	3					8						14			17											29					
*03:12	1		3											15			17											29					
*03:13	1	2	3					8									17	18										29					
*03:14	1	2	3					8								16	17											29					
*03:15	1	2	3					8									17		19									29					
*03:16, 03:61 <sup>6</sup>	1	2	3					8									17			20								29					
*03:17, 03:74 <sup>7</sup>	1	2	3					8									17				21							29					
*03:18, 03:135		2						8														22						29					
*03:19	1	2	3					8									17		19				23					29					
*03:20, 03:47 <sup>8</sup>	1	2	3					8									17											29					
*03:21N	1	2	3					8									17							24				29					
*03:22:01-03:22:02, 03:103 <sup>9</sup>	1	2	3					8									17						23					29					
*03:23:01-03:23:02	1	2	3					8									17								25			29					
*03:24	1	2	3					8									17									26			29				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	



101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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Length of spec.	235	225	205	215	185	275	225	240	230	65	225	190	145	105	225	275	215	135	230	60	130	250	95	470	155	190	95	495	100	130	200	150			
PCR product(s)									205					235				210		175	195	155	240	210	185			145			210	155	230	270	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			
*03:25, 03:71 <sup>10</sup>	1	2	3					8									17									27		29							
*03:27, 03:49 <sup>11</sup>	1	2	3					8									17												29	30					
*03:28	1	2	3					8									17												29		31				
*03:29	1	2	3					8									17																	32	
*03:30	1	2	3					8									17																29		
*03:31	1	2		4				8		10																							29		
*03:32	1			4				8		10	11																								
*03:33, 03:70 <sup>12</sup>	1	2	3					8									17																29		
*03:34	1	2	3					8									17																		
*03:35	1	2	3					8									17																29		
*03:36N	1		3					8									17																		
*03:37	1	2	3					8									17																	29	
*03:38, 03:68N <sup>13</sup>	1	2	3					8									17																	29	
*03:39	1	2	3					8									17																	29	
*03:40			2	3				8									17																	29	
*03:41	1		3								11						17												28						
*03:42		2						8	9	10							17																	29	
*03:43	1	2	3					8									17																	29	
*03:44, 03:53 <sup>14</sup>	1	2	3					8									17																	29	
*03:45	1	2	3					8									17																	29	
*03:46	1	2	3					8									17																	29	
*03:48	1	2	3					8									17																	29	
*03:50	1	2	3					8										18																29	
*03:51	1	2	3					8									17																	29	
*03:52	1	2	3					8									17																	29	
*03:54	1	2						8									17																	29	
*03:55	1	2	3					8									17																	29	
*03:56, 03:99	1	2	3					8									17						23										29	31	
*03:57	1		3														17																	29	
*03:58	1	2	3					8									17																	29	
*03:59	1		3					8					14				17																	29	
*03:60	1	2	3					8		10							17																	29	
*03:62	1	2	3					8									17																		
*03:63	1	2	3					8									17												28						
*03:64	1	2						8									17	18																29	
*03:65	1	2		4				8																										29	
*03:66	1	2						8										18																29	
*03:67	1	2	3					8									17																	29	32
*03:69N	1	2	3	4			7	8																										29	
*03:72	1		3					8	9								17																	29	
*03:73	1	2		4				8		10																								29	
*03:75		2						8															23											29	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			

101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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																												Length of spec.						
																												PCR product(s)						
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	Well No.		
																																		*03:25, 03:71 <sup>10</sup>
																																		*03:27, 03:49 <sup>11</sup>
																																		*03:28
																																		*03:29
33																																		*03:30
	34																																	*03:31
		35																																*03:32
			36																															*03:33, 03:70 <sup>12</sup>
				37																														*03:34
					38																													*03:35
						39																												*03:36N
							40																											*03:37
								41																										*03:38, 03:68N <sup>13</sup>
									42																									*03:39
										44																								*03:40
															47																			*03:41
																																		*03:42
																																		*03:43
																																		*03:44, 03:53 <sup>14</sup>
																																		*03:45
																																		*03:46
																																		*03:48
																																		*03:50
																																		*03:51
																																		*03:52
																																		*03:54
																																		*03:55
																																		*03:56, 03:99
																																		*03:57
																																		*03:58
																																		*03:59
																																		*03:60
																																		*03:62
																																		*03:63
																																		*03:64
																																		*03:65
																																		*03:66
																																		*03:67
																																		*03:69N
																																		*03:72
																																		*03:73
																																		*03:75
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	Well No.		

101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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Length of spec.	235	225	205	215	185	275	225	240	230	65	225	190	145	105	225	275	215	135	230	60	130	250	95	470	155	190	95	495	100	130	200	150								
PCR product(s)									205					235				210		175		195	155	240	210	185			145		210	155	230	270						
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32								
*03:76	1	2		4				8		10																						29								
*03:78	1	2	3					8									17																29							
*03:79	1	2	3					8									17																	29						
*03:81	1	2	3					8									17																		29					
*03:86	1	2	3					8									17																		29					
*03:87	1	2	3					8									17																			29				
*03:88	1		3											15			17						23						28						31					
*03:89	1		3					8									17																							
*03:91N	1	2	3					8									17																29			32				
*03:93	1	2	3					8									17										26							29						
*03:95, 74:13 <sup>5</sup>		2						8																											29					
*03:96	1	2	3					8									17																			29				
*03:97	1	2	3					8									17						22													29				
*03:98, 03:105		2	3					8									17																			29				
*03:102	1	2	3					8									17					21												29	30					
*03:104	1	2	3					8									17																			29				
*03:107	1		3								11						17																							
*03:108	1		3					8				12					17																							
*03:111	1		3					8									17																				29			
*03:112	1	2	3					8									17																				29			
*03:113	1	2		4				8		10																											29			
*03:118, 03:134 <sup>15</sup>	1	2	3					8									17																				29			
*03:122		2	3					8									17						22														29			
*03:123	1	2	3					8									17																					29		
*03:127	1	2						8									17																					29		
*03:128	1	2	3					8									17																					29		
*03:129N	1	2	3					8									17																					29		
*03:130	1	2	3					8									17																					29		
*03:132	1	2	3					8									17																					29		
*03:133	1	2						8		10							17																					29		
*03:142	1		3					8									17																					29		
*03:143	1	2	3					8									17																					29	31	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32								

101.413-24/04 – including *Taq* polymerase, IFU-01  
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www.olerup-ssp.com																												Length of spec.					
																												PCR product(s)					
285	210	180																															
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	Well No.	
										43																							*03:76
																49																	*03:78
											44																						*03:79
																																	*03:81
																																	*03:86
																																	*03:87
																																	*03:88
																																	*03:89
																45																	*03:91N
																																	*03:93
																																	*03:95, 74:13 <sup>5</sup>
																																	*03:96
																																	*03:97
																																	*03:98, 03:105
																																	*03:102
																																	*03:104
																47																	*03:107
																																	*03:108
																																	*03:111
																																	*03:112
																																	*03:113
																																	*03:118, 03:134 <sup>15</sup>
																																	*03:122
																																	*03:123
																																	*03:127
																																	*03:128
																																	*03:129N
																																	*03:130
																																	*03:132
																																	*03:133
																																	*03:142
																																	*03:143
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	Well No.	

101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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PCR product(s)										205				235				210		175	195	155	240	210	185			145		210	155	230	270	220	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			
*01:01:01:01:01:01:03, 01:01:05-01:01:12, 01:01:14-01:01:28, 01:01:30-01:01:31, 01:01:33-01:01:34, 01:01:36-01:01:45, 01:08-01:11N, 01:14- 01:16N, 01:18N, 01:22N- 01:23, 01:26-01:27N, 01:29-01:33, 01:35- 01:42, 01:44, 01:46- 01:50, 01:52N-01:62, 01:64-01:65, 01:67- 01:71, 01:74-01:82, 01:84-01:85, 01:87N- 01:94, 01:96-01:97, 01:99-01:100, 01:103, 01:105-01:107, 01:109											11												22												
*01:01:04, 01:01:13, 01:01:29, 01:01:35, 01:24											11												22												
*01:01:32, 01:02, 01:07, 01:43, 01:95																							22												
*01:03, 01:63, 01:66, 01:72-01:73, 01:102, 36:03-36:04, 74:10											11																								
*01:04N											11											22	24												
*01:06											11						17					22													
*01:12, 01:19				4						10	11											22													
*01:13		2						8														22													
*01:17, 01:104, 01:108																							22												
*01:21										10	11											22													
*01:25				4							11											22													
*01:28								8			11											22													
*01:45											11											22													
*01:51											11											22						26							
*01:83											11											22					25								
*01:86						6					11											22													
*01:98											11							18				22													
*01:101											11											22													
<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>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>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>			



101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

**Lot No.: 97N**

**Lot-specific Information**

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

285	210	180	160	125	275	235	210	160	120	225	120	95	165	200	240	185	190	150	165	150	110	110	240	70	545	130	285	85	260	240	175	215	180	205	240	390	170	190	175	225	Length of spec.				
																																												PCR product(s)	
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	Well No.													
																												*01:01:01:01:01:01:03, 01:01:05-01:01:12, 01:01:14-01:01:28, 01:01:30-01:01:31, 01:01:33-01:01:34, 01:01:36-01:01:45, 01:08-01:11N, 01:14- 01:16N, 01:18N, 01:22N- 01:23, 01:26-01:27N, 01:29-01:33, 01:35- 01:42, 01:44, 01:46- 01:50, 01:52N-01:62, 01:64-01:65, 01:67- 01:71, 01:74-01:82, 01:84-01:85, 01:87N- 01:94, 01:96-01:97, 01:99-01:100, 01:103, 01:105-01:107, 01:109																	
																												*01:01:04, 01:01:13, 01:01:29, 01:01:35, 01:24																	
																												*01:01:32, 01:02, 01:07, 01:43, 01:95																	
																												*01:03, 01:63, 01:66, 01:72-01:73, 01:102, 36:03-36:04, 74:10																	
																												*01:04N																	
																												*01:06																	
																												*01:12, 01:19																	
																												*01:13																	
																												*01:17, 01:104, 01:108																	
																												*01:21																	
																												*01:25																	
																												*01:28																	
																												*01:45																	
																												*01:51																	
																												*01:83																	
																												*01:86																	
																												*01:98																	
																												*01:101																	
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	Well No.													

101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **97N**

Lot-specific Information

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

Length of spec.	235	225	205	215	185	275	225	240	230	65	225	190	145	105	225	275	215	135	230	60	195	155	130	250	95	470	155	190	95	495	100	130	200	150	
PCR product(s)										205				235				210		175		195	155		240	210			145			210	155	230	270
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			
*02:01:01:01-02:01:08, 02:01:10-02:01:15, 02:01:17-02:01:19, 02:01:21-02:01:48, 02:01:50-02:04, 02:07:01- 02:07:02, 02:09, 02:11:01, 02:11:03-02:13, 02:15N- 02:18, 02:20:01-02:20:02, 02:22:01-02:22:02, 02:24:01-02:27, 02:29- 02:33, 02:38-02:40, 02:42- 02:43N, 02:45-02:47, 02:49, 02:52-02:53N, 02:55, 02:58-02:60:02, 02:63-02:71, 02:73- 02:76:01, 02:77, 02:80, 02:82N-02:83N, 02:85- 02:86, 02:88N-02:89, 02:92-02:97:02, 02:101:01- 02:102, 02:104-02:105, 02:107, 02:109-02:111, 02:113N-02:121, 02:123, 02:125N, 02:128, 02:130- 02:135, 02:138-02:141, 02:145, 02:147-02:153, 02:155, 02:157-02:163, 02:165-02:168, 02:171:01- 02:171:02, 02:173-02:177, 02:181-02:183, 02:185- 02:228, 02:230-02:231, 02:233-02:236, 02:238- 02:243, 02:245-02:246, 02:249-02:254, 02:256- 02:258, 02:260-02:270, 02:272-02:277, 02:279- 02:285, 02:287-02:289, 02:291-02:294, 02:296- 02:299, 02:301N-02:309, 02:311-02:323, 02:325- 02:327, 02:329, 02:332, 02:334-02:336, 02:339- 02:343, 02:345-02:354, 02:356N-02:357, 31:01:02- 31:01:05, 31:01:07-31:02, 31:06, 31:09, 31:11-31:18, 31:20, 31:22-31:32, 31:34- 31:62, 33:01:01-33:01:06, 33:03:01-33:03:05, 33:03:07-33:07, 33:09, 33:11-33:12, 33:14-33:16, 33:18, 33:20-33:23, 33:25- 33:47, 33:50, 33:52-33:59, 74:05							8																												
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			





101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **97N**

Lot-specific Information

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

Length of spec.	235	225	205	215	185	275	225	240	230	65	225	190	145	105	225	275	215	135	230	60	130	155	250	95	470	155	190	95	495	100	130	200	150				
PCR product(s)										205				235				210		175		195	155		240	210	185					210	155	230	220	270	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32					
*02:01:09, 02:50, 02:76:02								8				12														25											
*02:05:05, 02:06:07, 02:122												12															25										
*02:11:02, 33:08								8																			25										
*02:19, 02:36-02:37, 02:255, 24:44, 31:05, 33:10, 33:19								8																													
*02:34-02:35:02, 02:56:01-02:56:02, 02:62, 02:103		w						8																											29		
*02:35:03		w						8																			25							29			
*02:48, 02:90, 74:01-74:03, 74:08-74:09, 74:11-74:12N, 74:14N-74:15								8			11																										
*02:54, 23:01:01-23:03:02, 23:05-23:06, 23:08N-23:12, 23:14-23:15, 23:17-23:30, 23:32-23:41, 23:44, 23:46-23:51, 24:02:01:01-24:02:04, 24:02:06-24:02:28, 24:02:30-24:02:56, 24:04-24:06, 24:09N, 24:13:01-24:14, 24:17, 24:20-24:21:02, 24:25-24:27, 24:29-24:32, 24:34-24:40N, 24:43, 24:45N-24:50, 24:52-24:64, 24:66-24:74, 24:76-24:88, 24:90N-24:91, 24:93, 24:95-24:103, 24:105-24:107, 24:109-24:111, 24:113-24:117, 24:119-24:124, 24:126-24:130, 24:133-24:137, 24:139-24:166, 24:168-24:199																																					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32					



101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **97N**

Lot-specific Information

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

Length of spec.	235	225	205	215	185	275	225	240	230	65	225	190	145	105	225	275	215	135	230	60	130	250	95	470	155	190	95	495	100	130	200	150				
PCR product(s)										205				235				210		175	195	155		240	210	185		145	95	495	100	155	230	220		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32				
*02:78, 66:02, 66:12, 66:16, 68:01:01:01-68:02:05, 68:06-68:14, 68:16-68:19, 68:21:01-68:25, 68:27-68:28, 68:30, 68:32-68:35, 68:37-68:39, 68:41-68:44, 68:47-68:56, 68:58-68:64, 68:66-68:70, 68:73-68:83, 68:86-68:88, 69:01															15														29							
*02:81, 02:124, 02:146, 26:20, 32:01:01-32:02, 32:06, 32:09-32:14, 32:16, 32:18-32:26, 32:28-32:36, 32:38-32:41											11																									
*02:156, 02:338								8	9	10						17					21															
*02:164								8																												
*02:237								8															23													
*11:01:01-11:02:01, 11:02:03-11:03, 11:05, 11:07, 11:09-11:11, 11:13-11:15:02, 11:20, 11:22, 11:29, 11:32-11:34, 11:36-11:37, 11:41-11:42, 11:46, 11:48-11:49, 11:51-11:52Q, 11:54-11:56, 11:58-11:59, 11:61-11:72, 11:74-11:77, 11:79-11:87, 11:89-11:91, 11:93, 11:95-11:97, 11:99N-11:100, 11:102-11:105, 11:107, 11:109N-11:110, 11:112-11:117, 11:120, 11:122				4											15																					
*11:02:02				4											w																					
*11:04				4					9						15																					
*11:06				4								12			w																					
*11:08, 11:44															15			18																		
*11:12				4											15																	29				
*11:16, 11:57, 11:73				4											15																					
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32				



101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **97N**

Lot-specific Information

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

Length of spec.	235	225	205	215	185	275	225	240	230	65	225	190	145	105	225	275	215	135	230	60	130	250	95	470	155	190	95	495	100	130	200	150		
PCR product(s)										205				235				210		175	195	155		240	210	185		145		210	155	230	270	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
*11:17, 11:19, 11:40, 11:45, 11:47, 11:78N, 11:92, 11:98, 11:106, 11:111				4																														
*11:18				4							12																							
*11:21N				4											15								24											
*11:23, 11:26, 11:50Q, 11:101, 11:118, 34:01:01-34:01:02, 34:05-34:06, 66:01, 66:04, 66:06-66:10, 66:13-66:14, 68:40, 68:72, 68:85															15																			
*11:24:01															15		17																	
*11:24:02															15		17																	
*11:25			3												15		17																	
*11:27, 11:38-11:39				4											15							22												
*11:30				4											15																			
*11:31										10					15		17																	
*11:35										9	10				15		17																	
*11:43				4				8																										
*11:60				4						10					15																			
*11:88				4				8	9																									
*11:94															15							22												
*11:108				4											15																			
*11:119				4											15							21												
*11:121				4																						25								
*23:07N, 24:11N *23:13, 24:07, 24:24, 24:108, 24:112, 24:131, 29:03																							24								29			
*24:08, 24:42																										25								
*24:18																							23											
*24:19								8	9																									
*24:28								8				12																						
*24:51				4																		21	22											
*24:89								8				12														25								
*24:92				4						10												21	22											
*24:104																																		
*25:03, 32:15											11																26							
*26:03:01-26:03:02, 26:06, 26:21, 26:30, 68:05, 68:15, 68:20 *26:07:01-26:07:02												12															25							
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		



101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **97N**

Lot-specific Information

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

www.olerup-ssp.com																												Length of spec.				
																												PCR product(s)				
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	Well No.
																																*11:17, 11:19, 11:40, 11:45, 11:47, 11:78N, 11:92, 11:98, 11:106, 11:111 *11:18 *11:21N *11:23, 11:26, 11:50Q, 11:101, 11:118, 34:01:01-34:01:02, 34:05-34:06, 66:01, 66:04, 66:06-66:10, 66:13-66:14, 68:40, 68:72, 68:85
																									58							*11:24:01 *11:24:02 *11:25 *11:27, 11:38-11:39
																	51															*11:30 *11:31 *11:35 *11:43
																	49															*11:60 *11:88 *11:94 *11:108
																																*11:119 *11:121 *23:07N, 24:11N *23:13, 24:07, 24:24, 24:108, 24:112, 24:131, 29:03
																																*24:08, 24:42 *24:18 *24:19 *24:28
																																*24:51 *24:89 *24:92 *24:104
33																															*25:03, 32:15 *26:03:01-26:03:02, 26:06, 26:21, 26:30, 68:05, 68:15, 68:20 *26:07:01-26:07:02	
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	Well No.

101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **97N**

Lot-specific Information

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

Length of spec.	235	225	205	215	185	275	225	240	230	65	225	190	145	105	225	275	215	135	230	60	130	250	95	470	155	190	95	495	100	130	200	150			
PCR product(s)										205				235				210		175	195	155	240	210	185			145			210	155	230	220	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			
*29:01:01:01-29:02:11, 29:04-29:18, 29:21- 29:29, 29:31-29:33, 29:35, 32:17, 68:36, 68:46, 68:57, 68:84																																		29	
*29:19, 33:24, 74:06								8				12																							
*30:01:01-30:01:05, 30:11:01-30:11:02, 30:14L-30:16, 30:18- 30:20, 30:23-30:24, 30:26, 30:35-30:43, 30:48-30:49, 30:53- 30:54, 30:56, 30:58- 30:60, 30:62								8	9								17																	29	
*30:02:01-30:03, 30:07, 30:10, 30:12, 30:22, 30:27N, 30:32-30:33, 30:50-30:51, 30:57									9								17																		
*30:04:01-30:04:02, 30:06, 30:29									9	10								18																	
*30:08									9						15		17																	29	
*30:09									9	10								17																	
*30:13, 30:31, 30:44								8	9									17																	
*30:17								8	9	10								18																29	
*30:25									9									17																29	
*30:30								8	9									17																29	
*30:34					6				9									17																	
*30:45																		17																	
*30:46								8	9	10								18																	
*30:52, 30:63, 68:45								8	9																									29	
*30:55		2						8	9									17																29	
*30:61									9									17				21													
*31:03-31:04								8	9	10								17																	
*31:19								8																											
*31:21, 74:07								8																											
*32:03, 32:08											w																								
*32:04	1		3								11							17																	
*32:05											11																								
*32:37											11																26								
*33:49								8	9	10								17																	
*34:02:01, 34:02:03- 34:04, 34:07			3						9						15		17																		
*34:02:02									9						15		17																		
*34:08		2	3					8	9									17									26								
*34:09			3						9						15		17																	29	
*36:01, 36:05									9		11																								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			

101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot-specific Information

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		285 210 180		160 125		275 235		210 160 120		225 120 95		250 195 165		235 200		240		275 185		220 190		260 150		240 195 165		270 150		190 110		240		70		545		130		285		85		260		240		175		215		180		275		205		240		390		170		190		200 175		225		Length of spec. PCR product(s)	
Well No.																																																																					
																																	*29:01:01-29:02:11, 29:04-29:18, 29:21- 29:29, 29:31-29:33, 29:35, 32:17, 68:36, 68:46, 68:57, 68:84																																				
																																	*29:19, 33:24, 74:06																																				
																																	*30:01:01-30:01:05, 30:11:01-30:11:02, 30:14L-30:16, 30:18- 30:20, 30:23-30:24, 30:26, 30:35-30:43, 30:48-30:49, 30:53- 30:54, 30:56, 30:58- 30:60, 30:62																																				
																																	*30:02:01-30:03, 30:07, 30:10, 30:12, 30:22, 30:27N, 30:32-30:33, 30:50-30:51, 30:57																																				
																																	*30:04:01-30:04:02, 30:06, 30:29																																				
																																	*30:08																																				
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																																	*30:13, 30:31, 30:44																																				
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																																	*31:03-31:04																																				
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																																	*31:21, 74:07																																				
																																	*32:03, 32:08																																				
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																																	*32:05																																				
																																	*32:37																																				
																																	*33:49																																				
																																	*34:02:01, 34:02:03- 34:04, 34:07																																				
																																	*34:02:02																																				
																																	*34:08																																				
																																	*34:09																																				
																																	*36:01, 36:05																																				
Well No.																																																																					



101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **97N**

Lot-specific Information

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	235	225	205	215	185	275	225	240	230	65	225	190	145	105	225	275	215	135	230	60	130	250	95	470	155	190	95	495	100	130	200	150			
PCR product(s)									205					235				210		175	195	155	240	210	185			145	95	495	210	155	230	220	270
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			
*36:02	1										11						18						23				28				31				
*68:26, 68:65														15															29						
*68:29								8																					29						
*68:71		2						8																		26			29						
*74:04								8			11														25										
*80:01											w						17						22			w									
*80:02								8			11						17						22			w									
C*07:35, C*08:48																																			
C*07:86																																			
<b>HLA-A allele<sup>4</sup></b>																																			
<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>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>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>			

<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\*03 subtyping.

In addition, wells number 4, 5, 10, 11, 13, 17, 31, 38, 42, 55 and 63 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> exon or 3<sup>rd</sup> or 4<sup>th</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>3</sup>The nucleotide position, in 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> or 5<sup>th</sup> exon, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>4</sup>HLA-A\*03 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), release 3.8.0, April 2012.

<sup>5</sup>The HLA-A\*03 primer set cannot separate the A\*03:95 and 74:13 alleles. These alleles can be distinguished by the HLA-A low resolution kit and/or the HLA-A\*74 high resolution kit.

<sup>6</sup>The A\*03:16 and A\*03:61 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 20.

<sup>7</sup>The A\*03:17 and A\*03:74 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 21.

<sup>8</sup>The A\*03:20, and A\*03:47 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 43.

<sup>9</sup>The A\*03:22:01-03:22:02 and A\*03:103 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 23.

<sup>10</sup>The A\*03:25 and A\*03:71 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 27.

<sup>11</sup>The A\*03:27 and A\*03:49 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 30.

<sup>12</sup>The A\*03:33 and A\*03:70 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 36.

<sup>13</sup>The A\*03:38 and A\*03:68N alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 41.

101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **97N**

Lot-specific Information

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																																	Length of spec.			
																																	PCR product(s)			
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	Well No.				
														47																						*36:02
																																64			*68:26, 68:65	
																																				*68:29
																																				*68:71
																																				*74:04
w														47																		64			*80:01	
w																																64			*80:02	
													46																							C*07:35, C*08:48
															48																					C*07:86
																																				HLA-A allele <sup>4</sup>
																																				Well No.

<sup>14</sup>The A\*03:44 and A\*03:53 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 46.

<sup>15</sup>The A\*03:118 and A\*03:134 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 57.

<sup>16</sup>Primer mix 10: Specific PCR fragment of 65 bp in the A\*03:60 allele. Specific PCR fragment of 205 bp in the A\*03:02:01-03:02:03, 03:07, 03:10, 03:31-03:32, 03:42, 03:73, 03:76, 03:82, 03:90, 03:106, 03:113 and 03:133 and the A\*01:12, 01:19, 01:21, 02:156, 02:338, 11:31, 11:35, 11:60, 24:92, 30:04:01-30:04:02, 30:06, 30:09, 30:17, 30:29, 30:46, 31:03-31:04 and 33:49 alleles.

Primer mix 14: Specific PCR fragment of 105 bp in the A\*03:11N allele. Specific PCR fragment of 235 bp in the A\*03:59 allele.

Primer mix 18: Specific PCR fragment of 135 bp in the A\*03:13 allele. Specific PCR fragment of 210 bp in the A\*03:50, 03:64 and 03:66 and the A\*01:98, 11:08, 11:44, 30:04:01-30:04:02, 30:06, 30:17, 30:29, 30:46 and 36:02 alleles.

Primer mix 20: Specific PCR fragment of 60 bp in the A\*03:61 allele. Specific PCR fragment of 175 bp in the A\*03:16 allele.

Primer mix 21: Specific PCR fragment of 130 bp in the A\*03:17 and the A\*02:156, 02:338, 11:119, 24:51, 24:92 and 30:61 alleles. Specific PCR fragment of 155 bp in the A\*03:102 allele. Specific PCR fragment of 195 bp in the A\*03:74 allele.

Primer mix 23: Specific PCR fragment of 95 bp in the A\*03:22:01-03:22:02 alleles. Specific PCR fragment of 185 bp in the A\*03:19 and 03:103 and the A\*02:237 alleles. Specific PCR fragment of 210 bp in the A\*03:56, 03:88 and 03:99 and the A\*36:02 alleles. Specific PCR fragment of 240 bp in the A\*03:75 allele. Specific PCR fragments of 185 and 240 bp in the A\*24:18 allele.

Primer mix 27: Specific PCR fragment of 95 bp in the A\*03:71 allele. Specific PCR fragment of 145 bp in the A\*03:25 allele.

Primer mix 30: Specific PCR fragment of 130 bp in the A\*03:27 allele. Specific PCR fragment of 155 bp in the A\*03:102 allele. Specific PCR fragment of 210 bp in the A\*03:49 allele.

Primer mix 31: Specific PCR fragment of 200 bp in the A\*03:56, 03:88, 03:99 and 03:143 and the A\*36:02 alleles. Specific PCR fragment of 230 bp in the A\*03:28 allele.

Primer mix 32: Specific PCR fragment of 150 bp in the A\*03:67 allele. Specific PCR fragment of 220 bp in the A\*03:29 allele. Specific PCR fragment of 270 bp in the A\*03:91N allele.

Primer mix 33: Specific PCR fragment of 180 bp in the A\*03:93 and the A\*32:37 and 80:01<sup>w</sup>-80:02<sup>w</sup> alleles. Specific PCR fragment of 210 bp in the A\*03:30 and the A\*24:104 and 32:05 alleles. Specific PCR fragment of 285 bp in the A\*03:62 allele.

Primer mix 34: Specific PCR fragment of 125 bp in the A\*03:58 allele. Specific PCR fragment of 160 bp in the A\*03:31 allele.

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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**Lot No.: 97N****Lot-specific Information****www.olerup-ssp.com**

Primer mix 35: Specific PCR fragment of 235 bp in the A\*03:32 and the A\*31:21 and 74:07 alleles. Specific PCR fragment of 275 bp in the A\*03:55 allele.

Primer mix 36: Specific PCR fragment of 120 bp in the A\*03:81 allele. Specific PCR fragment of 160 bp in the A\*03:33 allele. Specific PCR fragment of 210 bp in the A\* 03:70 allele.

Primer mix 37: Specific PCR fragment of 95 bp in the A\*03:48 allele. Specific PCR fragment of 120 bp in the A\*03:81 allele. Specific PCR fragment of 225 bp in the A\* 03:34 allele.

Primer mix 38: Specific PCR fragment of 165 bp in the A\*03:35 allele. Specific PCR fragment of 195 bp in the A\*03:79 allele. Specific PCR fragment of 250 bp in the A\*03:73 allele.

Primer mix 39: Specific PCR fragment of 200 bp in the A\*03:36N allele. Specific PCR fragment of 235 bp in the A\*03:45 allele.

Primer mix 41: Specific PCR fragment of 185 bp in the A\* 03:38 allele. Specific PCR fragment of 275 bp in the A\*03:68N allele.

Primer mix 42: Specific PCR fragment of 190 bp in the A\*03:143 allele. Specific PCR fragment of 220 bp in the A\*03:39 allele.

Primer mix 43: Specific PCR fragment of 150 bp in the A\*03:20 allele. Specific PCR fragment of 260 bp in the A\*03:47 and 03:76 alleles.

Primer mix 44: Specific PCR fragment of 165 bp in the A\*03:51 allele. Specific PCR fragment of 195 bp in the A\*03:79 allele. Specific PCR fragment of 240 bp in the A\*03:40 allele.

Primer mix 45: Specific PCR fragment of 150 bp in the A\*03:43 allele. Specific PCR fragment of 270 bp in the A\*03:91N allele.

Primer mix 46: Specific PCR fragment of 115 bp in A\*03:44 and 03:52 and the A\*02:164 and 31:19 alleles. Specific PCR fragment of 190 bp in A\*03:53 and the A\*30:30 and in the C\*07:35 and C\*08:48 alleles.

Primer mix 48: Specific PCR fragment of 70 bp in the A\*03:54 allele. Specific PCR fragment of 110 bp in the A\*03:52 and the A\*31:19 alleles. Specific PCR fragment of 145 bp in the A\*03:46 and in the C\*07:86 alleles.

Primer mix 57: Specific PCR fragment of 180 bp in the A\*03:134 allele. Specific PCR fragment of 275 bp in the A\*03:118 allele.

Primer mix 63: Specific PCR fragment of 175 bp in the A\*03:123 and the A\*02:156, 02:338, 11:16, 11:35, 11:57 and 11:73 alleles. Specific PCR fragment of 200 bp in the A\*03:42 and 03:133 and the A\*30:09, 31:03-31:04 and 33:49 alleles.

<sup>17</sup>This lot of the HLA-A\*03 subtyping kit cannot distinguish the A\*03:26 and the A\*03:01:01:01, 03:01:01:03-03:01:01:03, 03:01:03-03:01:07, 03:01:09-03:01:11, 03:01:13, 03:01:15-03:01:22 and 03:01:24-03:01:33 alleles.

‘w’, may be weakly amplified.

101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **97N**

Lot-specific Information

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CELL LINE VALIDATION SHEET																				
HLA-A*03 SSP subtyping kit																				
				Well																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				Prod. No.:	201072001	201072002	201187903	201072004	201072005	201203706	201072007	201072008	201072009	201072010	201072011	201072012	201072013	201072014	201072015	201072016
IHCW cell line		A*																		
1	9001	SA	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*02:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
3	9011	E4181324	*01:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
4	9275	GU373	*30:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
5	9009	KAS011	*01:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
6	9353	SM	*02:01	*26:03	-	-	-	-	-	-	-	-	+	-	-	-	+	-	-	-
7	9020	QBL	*26:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*31:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*26:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*02:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
13	9004	JESTHOM	*02:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
14	9071	OLGA	*31:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
15	9075	DKB	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*03:01	*80:01	+	+	+	-	-	-	-	-	+	-	-	W	-	-	-	-
18	9257	32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
19	9038	BM16	*02:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
20	9059	SLE005	*02:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
21	9064	AMALA	*02:17	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
22	9056	KOSE	*02:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
23	9124	IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-
24	9035	JBUSH	*32:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
25	9049	IBW9	*33:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
26	9285	WT49	*02:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320	BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
29	9050	MOU	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	-
31	9019	DUCAF	*30:02	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
32	9297	HAG	*02:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
33	9098	MT14B	*31:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
34	9104	DHIF	*31:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
35	9302	SSTO	*32:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
36	9024	KT17	*02:06	*11:01	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-
37	9065	HHKB	*03:01	-	+	+	+	-	-	-	-	-	+	-	-	-	-	-	-	-
38	9099	LZL	*02:17	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
39	9315	CML	*01:01	*03:01	+	+	+	-	-	-	-	-	+	-	-	+	-	-	-	-
40	9134	WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
41	9055	H0301	*03:01	-	+	+	+	-	-	-	-	-	+	-	-	-	-	-	-	-
42	9066	TAB089	*02:07	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
43	9076	T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
44	9057	TEM	*66:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
45	9239	SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013	SCHU	*03:01	-	+	+	+	-	-	-	-	-	+	-	-	-	-	-	-	-
47	9045	TUBO	*02:16	*03:01	+	+	+	-	-	-	-	-	+	-	-	-	-	-	-	-
48	9303	TER-ND	*02:01	*11:01	-	-	-	+	-	-	-	-	+	-	-	-	-	-	+	-



101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: 97N

Lot-specific Information

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CELL LINE VALIDATION SHEET																																						
HLA-A*03 SSP subtyping kit																																						
			Prod. No.:	Well																																		
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	201203717	201072018	201072019	201072020	201203721	201072022	201072023	201072024	201072025	201203726	201072027	201072028	201072029	201203730	201203731	201203732			
	IHWC cell line	A*																																				
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	9011 E4181324	*01:01		-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	9275 GU373	*30:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	9353 SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*30:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SСТО	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **97N**

Lot-specific Information

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

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-A*03 SSP subtyping kit</b>																			
			Prod. No.:	Well															
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	<b>IHWC cell line</b>	<b>A*</b>		201203733	201072034	201072035	201203736	201203737	201203738	201072039	201072040	201072041	201203742	201072043	201203744	201203745	201072046	201072047	201072048
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	<b>w</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **97N**

Lot-specific Information

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<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-A*03 SSP subtyping kit</b>																			
			Prod. No.:	Well															
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
	IHWC cell line	A*		201203749	201203750	201203751	201203752	201203753	201203754	201203755	201203756	201203757	201203758	201203759	201203760	201203761	201203762	201203763	201203764
1	9001 SA	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*30:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*01:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*02:01	*26:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*26:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
11	9051 PITOUT	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*24:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
16	9037 SWEIG007	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:01	*80:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
18	9257 32367	*33:03	*74:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*02:01	*34:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*33:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*02:05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*24:10	*29:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*02:01	*29:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*29:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*30:01	*68:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*30:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*02:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*31:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*32:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*02:06	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*02:17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*01:01	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*02:07	*30:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*02:07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*02:06	*02:07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*66:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*23:01	*24:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU	*03:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*02:16	*03:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*02:01	*11:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

101.413-24/04 – including *Taq* polymerase, IFU-01  
 101.413-24u/04u – without *Taq* polymerase, IFU-02

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

Lot No.: **97N**

Lot-specific Information

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

## CERTIFICATE OF ANALYSIS

### Olerup SSP® HLA-A\*03 SSP

**Product number:** 101.413-24/04 – including *Taq* pol.  
 101.413-24u/04u – without *Taq* pol.  
**Lot number:** 97N  
**Expiry date:** 2015-January-01  
**Number of tests:** 24 tests – Product No. 101.413-24/24u  
 4 tests – Product No. 101.413-04/04u  
**Number of wells per test:** 64

#### Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2010-720-01	25	2010-720-25	49	2012-037-49
2	2010-720-02	26	2012-037-26	50	2012-037-50
3	2011-879-03	27	2010-720-27	51	2012-037-51
4	2010-720-04	28	2010-720-28	52	2012-037-52
5	2010-720-05	29	2010-720-29	53	2012-037-53
6	2012-037-06	30	2012-037-30	54	2012-037-54
7	2010-720-07	31	2012-037-31	55	2012-037-55
8	2010-720-08	32	2012-037-32	56	2012-037-56
9	2010-720-09	33	2012-037-33	57	2012-037-57
10	2010-720-10	34	2010-720-34	58	2012-037-58
11	2010-720-11	35	2010-720-35	59	2012-037-59
12	2010-720-12	36	2012-037-36	60	2012-037-60
13	2010-720-13	37	2012-037-37	61	2012-037-61
14	2010-720-14	38	2012-037-38	62	2012-037-62
15	2010-720-15	39	2010-720-39	63	2012-037-63
16	2010-720-16	40	2010-720-40	64	2012-037-64
17	2012-037-17	41	2010-720-41		
18	2010-720-18	42	2012-037-42		
19	2010-720-19	43	2010-720-43		
20	2010-720-20	44	2012-037-44		
21	2012-037-21	45	2012-037-45		
22	2010-720-22	46	2010-720-46		
23	2010-720-23	47	2010-720-47		
24	2010-720-24	48	2010-720-48		

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

No DNAs carrying the alleles to be amplified by primer solutions 5 to 7, 13, 16, 19 to 21, 23, 25, 27, 28, 30 to 32, 34 to 46 and 48 to 63 were available. The specificities of the primers in primer solutions 21, 23, 25, 28, 31, 32, 34, 35, 43 to 45, 53, 58 and 63 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer.

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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In primer solutions 6, 7, 16, 20, 30, 36 to 39, 41, 49, 51, 52, 54, 56, 59 and 61 it was only possible to test the 5'-primers, the 3'-primers were not possible to test.

In primer solutions 5, 13, 19, 27, 40, 42, 46, 48, 50, 55, 57, 60 and 62 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

In primer mixes 28, 31, 34 and 43 one or two 5'-primers were not possible to test, and in primer mixes 10, 14, 21, 32, 34, 35, 43 to 45 one or two 3'-primers were not possible to test.

Additional primers in primer mixes 14, 26 and 33 were tested by separately adding one 3'-primer and/or 5'-primer.

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

**Date of approval:** 2012-July-20

**Approved by:**

**Production Quality Control**

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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Lot No.: **97N**

Lot-specific Information

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## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-A\*03  
**Product number:** 101.413-24/24u, -04/04u  
**Lot number:** 97N

**Intended use:** HLA-A\*03 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  
2012-July-20

Ann-Cathrin Jareman  
Head of QA and Regulatory Affairs

101.413-24/04 – including *Taq* polymerase, IFU-01  
101.413-24u/04u – without *Taq* polymerase, IFU-02

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