

101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **66N**

Lot-specific information  
**Olerup SSP<sup>®</sup> HLA-C\*07**

Product number:	101.615-24/04 – including <i>Taq</i> pol. 101.615-24u/04u – without <i>Taq</i> pol.
Lot number:	66N
Expiry date:	2014-October-01
Number of tests:	24 tests – Product No. 101.615-24 4 tests – Product No. 101.615-04
Number of wells per test:	64
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

**This Product Description is only valid for Lot No. 66N.**

**CHANGES COMPARED TO THE PREVIOUS OLERUP SSP<sup>®</sup>  
HLA-C\*07 LOT (62M)**

The HLA-C\*07 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-C\*07 kit, wells **49 to 64**.

The Lot-specific information for HLA-C\*07 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-C\*07 specificity and interpretation tables have been updated for the HLA-C alleles described since the previous *Olerup SSP<sup>®</sup> HLA-C\*07* lot was made (**Lot No. 62M**).

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
11	Added	-	5'-primer added for the C*07:112 allele.
15	-	-	Exchanged positive control primer pair, to decrease primer oligomer formation.
20	Modified	-	Increased yield of specific PCR product.
31	-	Modified	Increased yield of specific PCR product.
34	-	-	Exchanged positive control primer pair, to decrease primer oligomer formation.
35	Moved	Moved	Exchanged positive control primer pair, primer pair moved to well 43, to decrease primer oligomer formation.
42	Added	-	5'-primers added for the C*07:123, 07:173 and 07:207 alleles.
43	Added	Added	Primer pair from well 35.
46	-	Added	3'-primers added for the C*07:152N, and 07:202 alleles.
47	-	Added	3'-primer added for the C*07:152N allele.
49	New	New	New primer pairs for the C*07:100, 07:101 and 07:148 alleles.
50	New	New	New primer pairs for the C*07:104N, 07:119, 07:124, 07:155, and 07:122 alleles.
51	New	New	New primer pairs for the C*07:117, 07:121Q and 07:126 alleles.
52	New	New	New primer pairs for the C*07:118, 07:203 and 07:106 alleles.
53	New	New	New primer pairs for the C*07:140, 07:151 and 07:154 alleles.
54	New	New	New primer pairs for the C*07:125, 07:129, 07:153 and 07:172 alleles.
55	New	New	New primer pairs for the C*07:132 and 07:179 alleles.
56	New	New	New primer pairs for the C*07:143, 07:150Q, 07:123 and 07:173 alleles.
57	New	New	New primer pair for the C*07:130 allele.
58	New	New	New primer pairs for the C*07:137:02, 07:164N and 07:202 alleles.
59	New	New	New primer pairs for the C*07:141, 07:145 and 07:191N alleles.
60	New	New	New primer pairs for the C*07:147, 07:165 and 07:180 alleles.
61	New	New	New primer pairs for the C*07:120 and 07:218 alleles.
62	New	New	New primer pairs for the C*07:106, 07:127 and 07:205 alleles.
63	New	New	New primer pairs for the C*07:198N, 07:24 and 07:202 alleles.
64	New	New	New primer pairs for the C*07:176 and 07:192 alleles.

Change in revision R01 compared to R00:

1. The positive control primer pair in primer mix 63 has been corrected to 800 base pairs in the specificity and amplification tables.

Change in revision R02 compared to R01:

1. The HLA-C\*07:24 and 07:218 and the C\*03:125, 12:45 and 16:13 alleles are not amplified by primer mix 61. This has been corrected in the Specificity and Interpretation Tables. Thus, this lot of the HLA-C\*07 subtyping kit cannot distinguish the C\*07:198N and the C\*07:218 alleles.

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## PRODUCT DESCRIPTION

### HLA-C\*07 SSP subtyping

#### CONTENT

The primer set contains 5'- and 3'-primers for identifying the HLA-C\*07:01 to HLA-C\*07:220 alleles.

#### PLATE LAYOUT

Each test consists of 64 PCR reactions in a 64 well cut 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>54</b>

The 64 well cut PCR plate is marked with ‘HLA-C\*07’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘66N’.

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

The PCR plates are heat-sealed with a PCR-compatible foil.

#### INTERPRETATION

The interpretation of HLA-C\*07 SSP subtypings will be influenced by the C\*01:60 allele, two C\*02, twelve C\*03, ten C\*04, the C\*05, most C\*06, most C\*08, five C\*12, the C\*14:17 allele, two C\*15, the C\*16:13, the C\*17 and the C\*18 alleles when present on the other haplotype.

In addition, the A\*29:10 allele will be amplified by primer mix 12, the A\*30:01:03 allele by primer mix 20, the A\*33:03:09 allele will be amplified by primer mixes 20 and 24, the B\*07:77 allele will be amplified by primer mixes 18 and 37, the B\*07:87 and B\*27:55 will be amplified by primer mix 50, the B\*08:17, B\*08:39 and B\*08:47 alleles by primer mix 32, the B\*27:36, B\*48:21 and B\*48:26 alleles by primer mix 7, the B\*35:08:04 allele by primer mixes 2, 11, 20, 27, 42, 56 and 59, the B\*35:178 and B\*73:01-73:02 alleles will be amplified by primer mix 45, the B\*37:04:02 allele by primer mixes 11, 14, 20, 53 and 59, the B\*38:23 allele by primer mix 8, the B\*40:60 allele by primer mixes 4, 18 and 37, the B\*40:100 allele by primer mix 10, the B\*46:06 allele by primer mix 16 and the B\*56:08 and B\*56:14 alleles by primer mix 25.

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### UNIQUELY IDENTIFIED ALLELES

All the HLA-C\*07 alleles, i.e. **C\*07:01 to C\*07:220**, recognized by the HLA Nomenclature Committee in January 2012<sup>1</sup> will be amplified by the primers in the HLA-C\*07 SSP kit.

The HLA-C\*07 kit enables separation of the confirmed HLA-C\*07 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources. Current allele confirmation status for HLA-C\*07 alleles is listed below.

The HLA-C\*07 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 C\*07:93 and 07:207 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 42.

The C\*07:100 and 07:161 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 49.

The C\*07:104N, 07:119 and 07:124 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 50.

The C\*07:117, 07:121Q and 07:126 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 51.

The C\*07:118 and 07:203 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 52.

The C\*07:122 and 07:151 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 53.

The C\*07:129 and 07:153 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 54.

The C\*07:132 and 07:179 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 55.

The C\*07:164N and 07:212 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 58.

The C\*07:165 and 07:180 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

The HLA-C\*07 subtyping kit cannot distinguish the following silent mutations: the C\*07:01:01-07:01:04 and 07:01:06-07:01:24 alleles, the C\*07:02:01:01-07:02:29 alleles, the C\*07:04:01-07:04:07, the C\*07:27:01-07:27:02 or the C\*07:56:01-07:56:02 alleles.

<sup>1</sup>HLA-C alleles listed on the IMGT/HLA web page 2012-January-12, release 3.7.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

<sup>2</sup>This lot of the HLA-C\*07 subtyping kit cannot distinguish the C\*07:198N and the C\*07:218 alleles.

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**ALLELE CONFIRMATION STATUS**

Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>	Allele	Status <sup>1</sup>
C*07:01:01	Confirmed	C*07:04:05	Unconfirmed	C*07:61N	Confirmed	C*07:121Q	Confirmed	C*07:180	Confirmed
C*07:01:02	Confirmed	C*07:04:06	Unconfirmed	C*07:62	Unconfirmed	C*07:122	Confirmed	C*07:181	Unconfirmed
C*07:01:03	Unconfirmed	C*07:04:07	Unconfirmed	C*07:63	Unconfirmed	C*07:123	Confirmed	C*07:182	Unconfirmed
C*07:01:04	Unconfirmed	C*07:05	Confirmed	C*07:64	Unconfirmed	C*07:124	Confirmed	C*07:183	Unconfirmed
C*07:01:05	Confirmed	C*07:06	Confirmed	C*07:65	Confirmed	C*07:125	Confirmed	C*07:184	Confirmed
C*07:01:06	Unconfirmed	C*07:07	Unconfirmed	C*07:66	Confirmed	C*07:126	Confirmed	C*07:185	Unconfirmed
C*07:01:07	Confirmed	C*07:08	Unconfirmed	C*07:67	Confirmed	C*07:127	Confirmed	C*07:186	Unconfirmed
C*07:01:08	Confirmed	C*07:09	Unconfirmed	C*07:68	Confirmed	C*07:128	Unconfirmed	C*07:187	Unconfirmed
C*07:01:09	Confirmed	C*07:10	Confirmed	C*07:69	Confirmed	C*07:129	Confirmed	C*07:188	Unconfirmed
C*07:01:10	Confirmed	C*07:11	Unconfirmed	C*07:70	Confirmed	C*07:130	Confirmed	C*07:189	Unconfirmed
C*07:01:11	Unconfirmed	C*07:12	Confirmed	C*07:71	Unconfirmed	C*07:131	Unconfirmed	C*07:190	Unconfirmed
C*07:01:12	Unconfirmed	C*07:13	Confirmed	C*07:72	Confirmed	C*07:132	Confirmed	C*07:191N	Unconfirmed
C*07:01:13	Unconfirmed	C*07:14	Unconfirmed	C*07:73	Confirmed	C*07:133	Unconfirmed	C*07:192	Confirmed
C*07:01:14	Unconfirmed	C*07:15	Confirmed	C*07:74	Unconfirmed	C*07:134	Unconfirmed	C*07:193	Unconfirmed
C*07:01:15	Confirmed	C*07:16	Confirmed	C*07:75	Confirmed	C*07:135	Unconfirmed	C*07:194	Unconfirmed
C*07:01:16	Unconfirmed	C*07:17	Confirmed	C*07:76	Confirmed	C*07:136	Unconfirmed	C*07:195	Unconfirmed
C*07:01:17	Unconfirmed	C*07:18	Confirmed	C*07:77	Unconfirmed	C*07:137:01	Unconfirmed	C*07:196	Confirmed
C*07:01:18	Confirmed	C*07:19	Confirmed	C*07:78	Unconfirmed	C*07:137:02	Confirmed	C*07:197	Unconfirmed
C*07:01:19	Unconfirmed	C*07:20	Confirmed	C*07:79	Confirmed	C*07:138	Unconfirmed	C*07:198N	Unconfirmed
C*07:01:20	Unconfirmed	C*07:21	Unconfirmed	C*07:80	Confirmed	C*07:139	Unconfirmed	C*07:199	Unconfirmed
C*07:01:21	Unconfirmed	C*07:22	Confirmed	C*07:81	Unconfirmed	C*07:140	Confirmed	C*07:200	Unconfirmed
C*07:01:22	Unconfirmed	C*07:23	Unconfirmed	C*07:82	Unconfirmed	C*07:141	Confirmed	C*07:201	Unconfirmed
C*07:01:23	Unconfirmed	C*07:24	Unconfirmed	C*07:83	Confirmed	C*07:142	Unconfirmed	C*07:202	Confirmed
C*07:01:24	Unconfirmed	C*07:25	Unconfirmed	C*07:84	Unconfirmed	C*07:143	Confirmed	C*07:203	Confirmed
C*07:02:01:01	Confirmed	C*07:26	Confirmed	C*07:85	Confirmed	C*07:144	Unconfirmed	C*07:204	Unconfirmed
C*07:02:01:02	Unconfirmed	C*07:27:01	Unconfirmed	C*07:86	Unconfirmed	C*07:145	Confirmed	C*07:205	Confirmed
C*07:02:01:03	Confirmed	C*07:27:02	Confirmed	C*07:87	Unconfirmed	C*07:146	Unconfirmed	C*07:206	Unconfirmed
C*07:02:02	Unconfirmed	C*07:28	Confirmed	C*07:88	Confirmed	C*07:147	Confirmed	C*07:207	Confirmed
C*07:02:03	Unconfirmed	C*07:29	Unconfirmed	C*07:89	Confirmed	C*07:148	Confirmed	C*07:208	Unconfirmed
C*07:02:04	Confirmed	C*07:30	Unconfirmed	C*07:90	Confirmed	C*07:149	Unconfirmed	C*07:209	Unconfirmed
C*07:02:05	Unconfirmed	C*07:31	Confirmed	C*07:91	Confirmed	C*07:150Q	Unconfirmed	C*07:210	Unconfirmed
C*07:02:06	Confirmed	C*07:32N	Confirmed	C*07:92	Unconfirmed	C*07:151	Confirmed	C*07:211	Unconfirmed
C*07:02:07	Confirmed	C*07:33N	Confirmed	C*07:93	Confirmed	C*07:152N	Unconfirmed	C*07:212	Confirmed
C*07:02:08	Confirmed	C*07:35	Confirmed	C*07:94	Unconfirmed	C*07:153	Confirmed	C*07:213	Unconfirmed
C*07:02:09	Unconfirmed	C*07:36	Confirmed	C*07:95	Confirmed	C*07:154	Confirmed	C*07:214	Unconfirmed
C*07:02:10	Confirmed	C*07:37	Unconfirmed	C*07:96	Confirmed	C*07:155	Confirmed	C*07:215	Unconfirmed
C*07:02:11	Confirmed	C*07:38	Unconfirmed	C*07:97	Confirmed	C*07:156	Unconfirmed	C*07:216	Unconfirmed
C*07:02:12	Unconfirmed	C*07:39	Unconfirmed	C*07:98N	Unconfirmed	C*07:157	Unconfirmed	C*07:217	Unconfirmed
C*07:02:13	Unconfirmed	C*07:40	Confirmed	C*07:99	Unconfirmed	C*07:158	Unconfirmed	C*07:218	Confirmed
C*07:02:14	Unconfirmed	C*07:41	Unconfirmed	C*07:100	Confirmed	C*07:159	Unconfirmed	C*07:219	Unconfirmed
C*07:02:15	Unconfirmed	C*07:42	Unconfirmed	C*07:101	Confirmed	C*07:160	Unconfirmed	C*07:220	Unconfirmed
C*07:02:16	Confirmed	C*07:43	Confirmed	C*07:102	Unconfirmed	C*07:161	Unconfirmed		
C*07:02:17	Confirmed	C*07:44	Unconfirmed	C*07:103	Unconfirmed	C*07:162	Unconfirmed		
C*07:02:18	Confirmed	C*07:45	Unconfirmed	C*07:104N	Confirmed	C*07:163	Unconfirmed		
C*07:02:19	Unconfirmed	C*07:46	Confirmed	C*07:105	Unconfirmed	C*07:164N	Unconfirmed		
C*07:02:20	Confirmed	C*07:47	Unconfirmed	C*07:106	Confirmed	C*07:165	Confirmed		
C*07:02:21	Unconfirmed	C*07:48	Unconfirmed	C*07:107	Unconfirmed	C*07:166	Unconfirmed		
C*07:02:22	Unconfirmed	C*07:49	Confirmed	C*07:108	Confirmed	C*07:167	Unconfirmed		
C*07:02:23	Unconfirmed	C*07:50	Unconfirmed	C*07:109	Confirmed	C*07:168	Unconfirmed		
C*07:02:24	Confirmed	C*07:51	Confirmed	C*07:110	Unconfirmed	C*07:169	Unconfirmed		
C*07:02:25	Unconfirmed	C*07:52	Unconfirmed	C*07:111	Unconfirmed	C*07:170	Unconfirmed		
C*07:02:26	Unconfirmed	C*07:53	Unconfirmed	C*07:112	Confirmed	C*07:171	Unconfirmed		
C*07:02:27	Unconfirmed	C*07:54	Confirmed	C*07:113	Unconfirmed	C*07:172	Confirmed		
C*07:02:28	Unconfirmed	C*07:55N	Confirmed	C*07:114	Unconfirmed	C*07:173	Confirmed		
C*07:02:29	Unconfirmed	C*07:56:01	Unconfirmed	C*07:115	Unconfirmed	C*07:174	Unconfirmed		
C*07:03	Unconfirmed	C*07:56:02	Confirmed	C*07:116	Unconfirmed	C*07:175	Unconfirmed		
C*07:04:01	Confirmed	C*07:57	Unconfirmed	C*07:117	Confirmed	C*07:176	Confirmed		
C*07:04:02	Unconfirmed	C*07:58	Unconfirmed	C*07:118	Confirmed	C*07:177	Unconfirmed		
C*07:04:03	Unconfirmed	C*07:59	Confirmed	C*07:119	Confirmed	C*07:178	Unconfirmed		
C*07:04:04	Unconfirmed	C*07:60	Confirmed	C*07:120	Confirmed	C*07:179	Confirmed		

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<sup>1</sup>Allele status “confirmed” or “unconfirmed” as listed on the IMGT/HLA web page 2012-January-12, release 3.7.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

**RESOLUTION IN HOMO- AND HETEROZYGOTES**

A total of 281 alleles generate 147 amplification patterns that can be combined in 10878 homozygous and heterozygous combinations. 3312 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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Lot-specific information  
**SPECIFICITY TABLE**

**HLA-C\*07 SSP subtyping**

Specificities and sizes of the PCR products of the 64 primer mixes used for HLA-C\*07 SSP subtyping

Primer Mix	Size of spec. PCR product <sup>1</sup>	Size of control band <sup>2</sup>	Amplified HLA-C*07 alleles <sup>3</sup>	Other amplified HLA-Class I alleles <sup>4</sup>
<b>1<sup>10</sup></b>	245 bp, 425 bp	<b>800 bp</b>	*07:01:01-07:33N, 07:35-07:220	
<b>2</b>	290 bp	<b>800 bp</b>	*07:01:01-07:01:04, 07:01:06-07:01:24, 07:05-07:07, 07:09, 07:14, 07:16, 07:18, 07:20-07:22, 07:24, 07:26-07:28, 07:30-07:31, 07:35-07:36, 07:40, 07:43-07:44, 07:52-07:53, 07:55N, 07:58-07:60, 07:65, 07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83, 07:85-07:86, 07:89, 07:91-07:96, 07:98N, 07:103-07:104N, 07:106, 07:109, 07:111, 07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131-07:132, 07:134, 07:140-07:141, 07:148, 07:150Q-07:151, 07:153, 07:156, 07:162-07:166, 07:170, 07:173, 07:176, 07:179-07:180, 07:182, 07:184, 07:188-07:191N, 07:196-07:197, 07:200-07:201, 07:203-07:207, 07:210, 07:212, 07:214-07:215, 07:219	*03:04:19, 03:113, 05:01:17, 05:09:02, 05:17, 08:15:02, 12:03:10, <b>B*35:08:04</b>
<b>3<sup>5</sup></b>	110 bp	<b>800 bp</b>	*07:01:01-07:01:24, 07:06, 07:09, 07:18-07:22, 07:24, 07:26, 07:28, 07:30, 07:35-07:36, 07:40, 07:44, 07:52-07:53, 07:55N, 07:57-07:59, 07:65, 07:69-07:71, 07:73, 07:77-07:78, 07:81-07:83,	*06:44, 18:05



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			07:85-07:86, 07:89, 07:91-07:96, 07:98N, 07:103-07:104N, 07:106, 07:108, 07:110-07:113, 07:115-07:116, 07:118-07:120, 07:122, 07:124, 07:128-07:129, 07:131-07:132, 07:134, 07:140-07:141, 07:148, 07:150Q-07:151, 07:153, 07:156, 07:162-07:166, 07:170, 07:173, 07:176, 07:179-07:180, 07:182, 07:188-07:191N, 07:196-07:197, 07:200-07:201, 07:203-07:207, 07:210, 07:212, 07:214-07:215, 07:219
<b>4</b>	185 bp	1070 bp	*07:02:01:01-07:02:29, 07:10, <b>B*40:60</b> 07:13, 07:15, 07:19, 07:23, 07:25, 07:29, 07:32N-07:33N, 07:37-07:39, 07:42, 07:46-07:51, 07:54, 07:56:01-07:56:02, 07:61N-07:62, 07:64, 07:66-07:68, 07:72, 07:74-07:76, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99-07:100, 07:102, 07:105, 07:107, 07:114, 07:117, 07:121Q, 07:123, 07:125-07:127, 07:130, 07:133, 07:135-07:138, 07:143-07:147, 07:149, 07:152N, 07:154-07:155, 07:157-07:161, 07:167-07:169, 07:172, 07:174-07:175, 07:178, 07:183, 07:185-07:187, 07:192-07:195, 07:198N, 07:202, 07:208-07:209, 07:211, 07:213, 07:216-07:218, 07:220
<b>5<sup>5,8,11</sup></b>	70 bp, 145 bp, 245 bp	<b>800 bp</b>	*07:03, 07:53, 07:57, 07:216
<b>6<sup>5</sup></b>	100 bp	1070 bp	*07:04:01-07:04:07, 07:11-07:12, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199



101.615-24/04 – including *Taq* pol., IFU-01  
 101.615-24u/04u – without *Taq* pol., IFU-02

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<b>7</b>	190 bp	1070 bp	*07:05	<b>B*27:36, B*48:21, 48:26</b>
<b>8<sup>12</sup></b>	285 bp, 505 bp	1070 bp	*07:06, 07:45	*04:40, <b>B*38:23</b>
<b>9<sup>6,13</sup></b>	215 bp, 240 bp, 425 bp	<b>800 bp</b>	*07:07, 07:09, 07:29, 07:33N, 07:49, 07:76, 07:177, 07:184, 07:210	*03:04:19, 03:113, 06:17, 18:01-18:05
<b>10</b>	185 bp	1070 bp	*07:08, 07:108	*04:58, <b>B*40:100</b>
<b>11<sup>14</sup></b>	275 bp, 300 bp	<b>800 bp</b>	*07:10, 07:24, 07:43, 07:112, 07:184, 07:196, 07:218	*03:04:19, 03:113, <b>B*35:08:04, B*37:04:02</b>
<b>12</b>	130 bp	1070 bp	*07:12, 07:41	*05:01:01:01-05:01:18, 05:03-05:08, 05:10-05:16, 05:18:01-05:22:02, 05:24-05:48N, 05:50-05:51Q, 05:53-05:61, 05:63-05:72, 08:01:01-08:06, 08:08-08:14, 08:16-08:46, 08:48-08:50, 08:52N-08:56, <b>A*29:10</b>
<b>13<sup>5,7</sup></b>	90 bp	1070 bp	*07:11, 07:56:01-07:56:02, 07:60, 07:79, 07:109	*03:69, 04:27, 04:52, 06:53, 12:58
<b>14</b>	240 bp	<b>800 bp</b>	*07:13, 07:28	*05:01:17, 05:09:02, 05:17, 08:15:02, <b>B*37:04:02</b>
<b>15<sup>5,15</sup></b>	80 bp, 290 bp, 460 bp	1070 bp	*07:14, 07:50, 07:89	
<b>16</b>	535 bp	1070 bp	*07:02:01:01-07:02:29, 07:04:01-07:05, 07:08, 07:10-07:11, 07:13-07:15, 07:23, 07:25, 07:27:01-07:27:02, 07:29, 07:31-07:33N, 07:37-07:39, 07:42-07:43, 07:45-07:51, 07:54, 07:56:01-07:56:02, 07:61N-07:64, 07:66-07:68, 07:72, 07:74-07:76, 07:79-07:80, 07:84, 07:87-07:88, 07:90, 07:97, 07:99-07:102, 07:105, 07:107, 07:114, 07:117, 07:121Q, 07:123, 07:125-07:127, 07:130, 07:133, 07:135-07:139,	*01:60, 03:14, 04:58, 05:23, 05:62, 08:07, 08:47, 12:14:01-12:14:02, 14:17, 17:01:01:01-17:11, <b>B*46:06</b>

101.615-24/04 – including *Taq* pol., IFU-01  
 101. 615-24u/04u – without *Taq* pol., IFU-02

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			07:142-07:147, 07:149, 07:152N, 07:154-07:155, 07:157-07:161, 07:167- 07:169, 07:172, 07:174- 07:175, 07:177-07:178, 07:181, 07:183-07:187, 07:192-07:195, 07:198N- 07:199, 07:202, 07:208- 07:209, 07:211, 07:213, 07:216-07:218, 07:220	
<b>17<sup>7</sup></b>	130 bp	1070 bp	*07:04:01-07:04:07, 07:11, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199	*05:23, 05:62, 08:07, 08:47
<b>18<sup>5,16</sup></b>	120 bp, 230 bp	<b>800 bp</b>	*07:15, 07:52	*05:03, <b>B*07:77,</b> <b>B*40:60</b>
<b>19<sup>17</sup></b>	220 bp, 355 bp, 465 bp	<b>800 bp</b>	*07:07, 07:16, 07:26, 07:33N, 07:51, 07:80, 07:92, 07:96, 07:177, 07:181	
<b>20<sup>18</sup></b>	145 bp, 170 bp, 195 bp	1070 bp	*07:03, 07:17, 07:44, 07:48, 07:81, 07:140-07:141, 07:168	*03:04:19, 03:113, 05:01:17, 05:09:02, 05:17, 08:15:02, 12:03:10, <b>A*30:01:03,</b> <b>A*33:03:09,</b> <b>B*35:08:04,</b> <b>B*37:04:02</b>
<b>21<sup>5,19</sup></b>	100 bp, 225 bp	<b>800 bp</b>	*07:06, 07:18-07:19, 07:54	
<b>22<sup>20</sup></b>	205 bp, 250 bp	<b>800 bp</b>	*07:20, 07:84, 07:96, 07:127	*02:49, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03, 04:06, 04:16, 04:80, 15:25
<b>23<sup>21</sup></b>	155 bp, 185 bp	1070 bp	*07:21, 07:23	
<b>24</b>	130 bp	1070 bp	*07:22, 07:25, 07:137:01, 07:138	*12:03:10, <b>A*33:03:09</b>
<b>25<sup>5,22</sup></b>	105 bp, 150 bp	1070 bp	*07:30, 07:46	<b>B*56:08<sup>w</sup>, 56:14</b>
<b>26<sup>5,23</sup></b>	100 bp, 250 bp, 300 bp,	1070 bp	*07:31-07:32N, 07:55N, 07:177	*12:03:10
<b>27<sup>5</sup></b>	125 bp	1070 bp	*07:37, 07:69, 07:176	*05:01:17, 05:09:02, 08:15:02, <b>B*35:08:04</b>
<b>28<sup>24</sup></b>	175 bp, 260 bp	<b>800 bp</b>	*07:35, 07:44, 07:47	
<b>29</b>	255 bp	1070 bp	*07:36, 07:42	
<b>30<sup>5</sup></b>	60 bp	1070 bp	*07:75	

101.615-24/04 – including *Taq* pol., IFU-01  
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot-specific information

<b>31</b>	415 bp	1070 bp	*07:39-07:40, 07:177, 07:210 <sup>W</sup>	
<b>32<sup>25</sup></b>	245 bp, 285 bp	1070 bp	*07:07, 07:09, 07:49, 07:60, 07:76, 07:79, 07:210	*02:14, 03:39, 03:67, 04:42, 05:43, 06:02:01:01- 06:02:01:02, 06:02:03- 06:02:05, 06:02:07- 06:02:11, 06:02:13- 06:02:19, 06:04-06:10, 06:12-06:51, 06:53- 06:69, 15:23, 18:01- 18:05, <b>B*08:17,</b> <b>B*08:39, B*08:47</b>
<b>33<sup>26</sup></b>	205 bp, 230 bp	1070 bp	*07:66, 07:82	
<b>34<sup>5,27</sup></b>	105 bp, 270 bp	1070 bp	*07:67, 07:70	
<b>35<sup>6,28</sup></b>	320 bp, 360 bp	1070 bp	*07:71-07:72	
<b>36<sup>6</sup></b>	265 bp	1070 bp	*07:20, 07:64, 07:73, 07:92, 07:96, 07:172	*18:04
<b>37</b>	265 bp	1070 bp	*07:38, 07:63, 07:68	*08:38, <b>B*07:77,</b> <b>B*40:60</b>
<b>38<sup>9,29</sup></b>	135 bp, 195 bp, 405 bp	1070 bp	*07:58, 07:61N, 07:65	
<b>39<sup>5,30</sup></b>	100 bp, 255 bp	<b>800 bp</b>	*07:59, 07:74	
<b>40<sup>31</sup></b>	205 bp, 440 bp	1070 bp	*07:07, 07:09, 07:62, 07:76, 07:78	*06:17, 18:01-18:05
<b>41<sup>32</sup></b>	140 bp, 255 bp	1070 bp	*07:88, 07:91	
<b>42<sup>5,33</sup></b>	100 bp, 205 bp, 250 bp	1070 bp	*07:15, 07:77, 07:93, 07:123, 07:173, 07:207	<b>B*35:08:04</b>
<b>43<sup>5,6,34</sup></b>	105 bp, 140 bp, 175 bp	1070 bp	*07:80, 07:94, 07:99, 07:183	
<b>44<sup>6,35</sup></b>	165 bp, 195 bp	1070 bp	*07:65, 07:77, 07:98N	
<b>45</b>	475 bp	1070 bp	*07:95	*04:34, <b>B*35:178,</b> <b>B*73:01-73:02</b>
<b>46<sup>36</sup></b>	200 bp, 315 bp, 350 bp, 420 bp	1070 bp	*07:83, 07:90, 07:152N, 07:202	
<b>47<sup>37</sup></b>	200 bp, 420 bp, 455 bp	1070 bp	*07:86, 07:97, 07:152N	
<b>48<sup>38</sup></b>	220 bp, 400 bp	1070 bp	*07:85, 07:87	

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Lot-specific information

<b>49</b> <sup>39</sup>	155 bp, 220 bp	<b>800 bp</b>	*07:100-07:101, 07:148, 07:161	*05:42, 05:46, 06:67, 08:05, 08:21, 17:05
<b>50</b> <sup>5,40</sup>	105 bp, 170 bp, 425 bp	1070 bp	*07:104N, 07:119, 07:124, 07:155	<b>B*07:87, B*27:55</b>
<b>51</b> <sup>5,41</sup>	65 bp, 235 bp, 285 bp	1070 bp	*07:117, 07:121Q, 07:126	
<b>52</b> <sup>5,42</sup>	65 bp, 205 bp, 280 bp	1070 bp	*07:106, 07:118, 07:203	
<b>53</b> <sup>5,43</sup>	110 bp, 155 bp	1070 bp	*07:122, 07:140, 07:151, 07:154	<b>B*37:04:02</b>
<b>54</b> <sup>5,44</sup>	120 bp, 235 bp, 340 bp, 370 bp	1070 bp	*07:64, 07:125, 07:129, 07:153	
<b>55</b> <sup>45</sup>	150 bp, 290 bp	1070 bp	*07:132, 07:179	*06:07
<b>56</b> <sup>46</sup>	210 bp, 255 bp	1070 bp	*07:123, 07:143, 07:150Q, 07:173	<b>B*35:08:04</b>
<b>57</b>	175 bp	<b>800 bp</b>	*07:130	*05:01:17, 05:09:02, 05:17, 08:15:02
<b>58</b> <sup>5,47</sup>	80 bp, 450 bp,	1070 bp	*07:137:01-07:137:02, 07:164N, 07:186, 07:212	
<b>59</b> <sup>6</sup>	200 bp	1070 bp	*07:81, 07:145, 07:168, 07:191N	<b>B*35:08:04, B*37:04:02</b>
<b>60</b> <sup>48</sup>	130 bp, 305 bp, 370 bp	1070 bp	*07:147, 07:165, 07:180	*03:04:19, 03:113, 05:01:17, 05:09:02, 08:15:02, 12:03:10
<b>61</b>	245 bp	1070 bp	*07:120	
<b>62</b> <sup>49</sup>	200 bp, 280 bp	1070 bp	*07:84, 07:106, 07:205	
<b>63</b> <sup>50</sup>	275 bp, 320 bp	<b>800 bp</b>	*07:24, 07:198N, 07:202, 07:218	
<b>64</b> <sup>51</sup>	135 bp, 225 bp	1070 bp	*07:69, 07:192	

<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-C\*07 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.

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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-C\*07 subtyping.

In addition, wells number 2, 3, 5, 9, 11, 14, 18, 19, 21, 22, 28, 39, 49, 57 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-C\*07 alleles 1<sup>st</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> and 7<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 the 1<sup>st</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> exons and in the introns are conserved within allelic groups.

<sup>4</sup>Due to the sharing of sequence motifs between HLA-C alleles non-HLA-C\*07 alleles will be amplified by primer mixes 2, 3, 6, 8 to 14, 16 to 18, 20, 22, 24, 26, 27, 32, 36, 37, 40, 45, 49, 55, 57, 60 and 61. In addition, the A\*29:10 allele will be amplified by primer mix 12, the A\*30:01:03 allele by primer mix 20, the A\*33:03:09 allele will be amplified by primer mixes 20 and 24, the B\*07:77 allele will be amplified by primer mixes 18 and 37, the B\*07:87 and B\*27:55 will be amplified by primer mix 50, the B\*08:17, B\*08:39 and B\*08:47 alleles by primer mix 32, the B\*27:36, B\*48:21 and B\*48:26 alleles by primer mix 7, the B\*35:08:04 allele by primer mixes 2, 11, 20, 27, 42, 56 and 59, the B\*35:178 and B\*73:01-73:02 alleles will be amplified by primer mix 45, the B\*37:04:02 allele by primer mixes 11, 14, 20, 53 and 59, the B\*38:23 allele by primer mix 8, the B\*40:60 allele by primer mixes 4, 18 and 37, the B\*40:100 allele by primer mix 10, the B\*46:06 allele by primer mix 16 and the B\*56:08 and B\*56:14 alleles by primer mix 25.

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

<sup>6</sup>Primer mixes 9, 35, 36, 43, 44 and 59 have a tendency of primer oligomer formation.

<sup>7</sup>Primer mixes 13 and 17 have a tendency of giving rise to nonspecific amplifications.

<sup>8</sup>In primer mix 5 the positive control band may be weaker than for other HLA-C\*07 primer mixes.

<sup>9</sup>Primer mix 38 may generate a false band of about 900 base pairs. This band should be disregarded when interpreting HLA-C\*07 SSP typings.

<sup>10</sup>Primer mix 1: Specific PCR fragment of 245 bp in the C\*07:07, 07:09, 07:49 and 07:76, 07:115, and 07:210 alleles. Specific PCR fragment of 425 bp in the C\*07:02:21, 07:41 and 07:166 alleles. Specific PCR fragment of 245 and 425 bp in the C\*07:01:01-07:06, 07:08, 07:10-07:33N, \*07:35-07:40, 07:42-07:48, 07:50-07:75, 07:77-07:114 and 07:211-07:220 alleles.

<sup>11</sup>Primer mix 5: Specific PCR fragment of 70 bp in the C\*07:53 and 07:216 alleles. Specific PCR fragment of 145 bp in the C\*07:57 allele. Specific PCR fragment of 245 bp in the C\*07:03 allele.

<sup>12</sup>Primer mix 8: Specific PCR fragment of 285 bp in the C\*07:45 and the C\*04:40 and in the B\*38:23 alleles. Specific PCR fragment of 505 bp in the C\*07:06 allele.

<sup>13</sup>Primer mix 9: Specific PCR fragment of 215 bp in the C\*07:33N allele. Specific PCR fragment of 240 bp in the C\*07:29, 07:177 and 07:184 and in the C\*03:04:19 and 03:113 alleles. Specific PCR fragment of 425 bp in the C\*07:07, 07:09, 07:49, 07:76 and 07:210 and in the C\*06:17 and 18:01-18:05 alleles.

<sup>14</sup>Primer mix 11: Specific PCR fragment of 275 bp in the C\*07:24 and 07:218 alleles. Specific PCR fragment of 300 bp in the C\*07:10, 07:43, 07:112, 07:184 and 07:196 and the C\*03:04:19 and 03:113 and in the B\*35:08:04 and B\*37:04:02 alleles.

<sup>15</sup>Primer mix 15: Specific PCR fragment of 80 bp in the C\* 07:50 allele. Specific PCR fragment of 290 bp in the C\*07:14 allele. Specific PCR fragment of 460 bp in the C\*07:89 allele.

<sup>16</sup>Primer mix 18: Specific PCR fragment of 120 bp in the C\*07:52 and the C\*05:03 alleles. Specific PCR fragment of 230 bp in the C\*07:15 and in the B\*07:77 and B\*40:60 alleles.

<sup>17</sup>Primer mix 19: Specific PCR fragment of 220 bp in the C\*07:26, 07:33N, 07:92 and 07:96 alleles. Specific PCR fragment of 355 bp in the C\*07:80 allele. Specific PCR fragment of 465 bp in the C\*07:07, 07:16, 07:51, 07:177 and 07:181 alleles.

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101. 615-24u/04u – without *Taq* pol., IFU-02

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<sup>18</sup>Primer mix 20: Specific PCR fragment of 145 bp in the C\*07:03, 07:17 and 07:140-07:141 and the C\*03:04:19, 03:113, 05:01:17, 05:09:02, 05:17, 08:15:02 and 12:03:10 and in the A\*30:01:03 and A\*33:03:09 alleles. Specific PCR fragment of 170 bp in the 07:44 and 07:48 alleles. Specific PCR fragment of 195 bp in the C\*07:81 allele. Specific PCR fragment of 145 bp and 195 bp in the B\*35:08:04 and B\*37:04:02 alleles.

<sup>19</sup>Primer mix 21: Specific PCR fragment of 100 bp in the C\*07:54 allele. Specific PCR fragment of 225 bp in the C\*07:06, 07:18 and 07:19 alleles.

<sup>20</sup>Primer mix 22: Specific PCR fragment of 205 bp in the C\*07:84 allele. Specific PCR fragment of 250 bp in the C\*07:20, 07:96 and 07:127 and in the C\*02:49, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03, 04:06, 04:16, 04:80, 15:25 alleles.

<sup>21</sup>Primer mix 23: Specific PCR fragment of 155 bp in the C\*07:23 allele. Specific PCR fragment of 185 bp in the C\*07:21 allele.

<sup>22</sup>Primer mix 25: Specific PCR fragment of 105 bp in the C\*07:46 and B\*56:06<sup>w</sup> and B\*56:14 alleles. Specific PCR fragment of 150 bp in the C\*07:30 allele.

<sup>23</sup>Primer mix 26: Specific PCR fragment of 100 bp in the C\*07:32N allele. Specific PCR fragment of 250 bp in the C\*07:55N allele. Specific PCR fragment of 300 bp in the C\*07:31 and 07:177 and the C\*12:03:10 alleles.

<sup>24</sup>Primer mix 28: Specific PCR fragment of 175 bp in the C\*07:44 allele. Specific PCR fragment of 260 bp in the C\*07:35 and 07:47 alleles.

<sup>25</sup>Primer mix 32: Specific PCR fragment of 245 bp in the C\*07:07, 07:09, 07:49, 07:76 and 07:210 and the C\*02:14, 04:42, 05:43, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:19, 06:04-06:10, 06:12-06:51, 06:53-06:69, 15:23 and 18:01-18:05 and in the B\*08:17 and B\*08:47 alleles. Specific PCR fragment of 285 bp in the C\*07:60 and 07:79 and the C\*03:39 and 03:67 and the B\*08:39 alleles.

<sup>26</sup>Primer mix 33: Specific PCR fragment of 205 bp in the C\*07:66 allele. Specific PCR fragment of 230 bp in the C\*07:82 allele.

<sup>27</sup>Primer mix 34: Specific PCR fragment of 105 bp in the C\*07:67 allele. Specific PCR fragment of 270 bp in the C\*07:70 allele.

<sup>28</sup>Primer mix 35: Specific PCR fragment of 320 bp in the C\*07:72 allele. Specific PCR fragment of 360 bp in the C\*07:71 allele.

<sup>29</sup>Primer mix 38: Specific PCR fragment of 135 bp in the C\*07:58 allele. Specific PCR fragment of 195 bp in the C\*07:65 allele. Specific PCR fragment of 405 bp in the C\*07:61N allele.

<sup>30</sup>Primer mix 39: Specific PCR fragment of 100 bp in the C\*07:74 allele. Specific PCR fragment of 255 bp in the C\*07:59 allele.

<sup>31</sup>Primer mix 40: Specific PCR fragment of 205 bp in the C\*07:62 allele. Specific PCR fragment of 440 bp in the C\*07:07, 07:09, 07:76 and 07:78 and in the C\*06:17 and 18:01-18:05 alleles.

<sup>32</sup>Primer mix 41: Specific PCR fragment of 140 bp in the C\*07:91 allele. Specific PCR fragment of 255 bp in the C\*07:88 allele.

<sup>33</sup>Primer mix 42: Specific PCR fragment of 100 bp in the C\*07:15 and 07:207 alleles. Specific PCR fragment of 205 bp in the C\*07:77 and 07:93 alleles. Specific PCR fragment of 250 bp in the C\*07:123 and 07:173 and the B\*35:08:04 alleles.

<sup>34</sup>Primer mix 43: Specific PCR fragment of 105 bp in the C\*07:94 and 07:183 alleles. Specific PCR fragment of 140 bp in the C\*07:99 allele. Specific PCR fragment of 175 bp in the C\*07:80 allele.

<sup>35</sup>Primer mix 44: Specific PCR fragment of 165 bp in the C\*07:98N allele. Specific PCR fragment of 195 bp in the C\*07:65 and 07:77 alleles.

<sup>36</sup>Primer mix 46: Specific PCR fragment of 200 bp in the C\*07:83 allele. Specific PCR fragment of 315 bp in the C\*07:202 allele. Specific PCR fragment of 350 bp in the C\*07:90 allele. Specific PCR fragment of 420 bp in the C\*07:152N allele.

<sup>37</sup>Primer mix 47: Specific PCR fragment of 200 bp in the C\*07:86 allele. Specific PCR fragment of 420 bp in the C\*07:152N allele. Specific PCR fragment of 455 bp in the C\*07:97 allele.

<sup>38</sup>Primer mix 48: Specific PCR fragment of 220 bp in the C\*07:87 allele. Specific PCR fragment of 400 bp in the C\*07:85 allele.

<sup>39</sup>Primer mix 49: Specific PCR fragment of 155 bp in the C\*07:101, 07:148, 07:161, 05:42, 05:46, 06:67, 08:05, 08:21, 17:05 allele. Specific PCR fragment of 220 bp in the C\*07:100 allele.



101.615-24/04 – including *Taq* pol., IFU-01  
101. 615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

**Lot No.: 66N****Lot-specific information**

<sup>40</sup>Primer mix 50: Specific PCR fragment of 105 bp in the C\*07:104N allele. Specific PCR fragment of 170 bp in the C\*07:119 and in the B\*07:87 and B\*27:55 alleles. Specific PCR fragment of 425 bp in the C\*07:124 and 07:155 alleles.

<sup>41</sup>Primer mix 51: Specific PCR fragment of 65 bp in the C\*07:126 allele. Specific PCR fragment of 235 bp in the C\*07:121Q allele. Specific PCR fragment of 285 bp in the C\*07:117 allele.

<sup>42</sup>Primer mix 52: Specific PCR fragment of 65 bp in the C\*07:203 allele. Specific PCR fragment of 205 bp in the C\*07:118 allele. Specific PCR fragment of 280 bp in the C\*07:106 allele.

<sup>43</sup>Primer mix 53: Specific PCR fragment of 110 bp in the C\*07:140, 07:151 and 07:154 and in the B\*37:04:02 alleles. Specific PCR fragment of 155 bp in the C\*07:122 allele.

<sup>44</sup>Primer mix 54: Specific PCR fragment of 120 bp in the C\*07:153 allele. Specific PCR fragment of 235 bp in the C\*07:64 allele. Specific PCR fragment of 340 bp in the C\*07:125 allele. Specific PCR fragment of 370 bp in the C\*07:129 allele.

<sup>45</sup>Primer mix 55: Specific PCR fragment of 150 bp in the C\*07:179 and the C\*06:07 alleles. Specific PCR fragment of 290 bp in the C\*07:132 allele.

<sup>46</sup>Primer mix 56: Specific PCR fragment of 210 bp in the C\*07:150Q allele. Specific PCR fragment of 255 bp in the C\*07:123, 07:143 and 07:173 and the B\*35:08:04 alleles.

<sup>47</sup>Primer mix 58: Specific PCR fragment of 80 bp in the C\*07:137:01-07:137:02, 07:186 and 07:212 alleles. Specific PCR fragment of 450 bp in the C\*07:164N allele.

<sup>48</sup>Primer mix 60: Specific PCR fragment of 130 bp in the C\*07:165 and the C\*03:04:19, 03:113, 05:01:17, 05:09:02, 08:15:02 and 12:03:10 alleles. Specific PCR fragment of 305 bp in the C\*07:147 allele. Specific PCR fragment of 370 bp in the C\*07:180 allele.

<sup>49</sup>Primer mix 62: Specific PCR fragment of 200 bp in the C\*07:84 and 07:205 alleles. Specific PCR fragment of 280 bp in the C\*07:106 allele.

<sup>50</sup>Primer mix 63: Specific PCR fragment of 275 bp in the C\*07:24 and 07:218 alleles. Specific PCR fragment of 320 bp in the C\*07:198N and 07:202 alleles.

<sup>51</sup>Primer mix 64: Specific PCR fragment of 135 bp in the C\*07:69 allele. Specific PCR fragment of 225 bp in the C\*07:192 allele.

‘w’, may be weakly amplified.



101.615-24/04 – including *Taq* pol., IFU-01  
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: 66N

Lot-specific information

<b>INTERPRETATION TABLE</b>																																	
<b>HLA-C*07 SSP subtyping</b>																																	
<b>Amplification patterns of the C*07:01 to C*07:220 alleles</b>																																	
	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.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	105	100	125	175	255	60	415	245	
PCR product(s)	425				245 145			505 285	425 240 215		300 275				460 290 80				465 355 220	195 170 145	225 100	250 205	185 155	130	150 105	300 250 100	125	260 175			285 245		
Length of int. pos. control <sup>1</sup>	800	800	800	1070	800	1070	1070	1070	800	1070	800	1070	1070	800	1070	1070	1070	800	800	800	1070	800	800	1070	1070	1070	1070	800	1070	1070	1070	1070	
5'-primer(s) <sup>2</sup>	648	368	270	368	512	540	363	355	47	368	355	512	289	419	47	270	512	368	47	463	368	134	199	524	206	361	193	390	122	322	47	97	
	5'-CAC	5'-gTA	5'-AAC	5'-gTC	5'-gTT	5'-gAC	5'-AAT	5'-CCT	5'-Agg	5'-gTT	5'-TCA	5'-gTg	5'-Agg	5'-gTT	5'-Agg	5'-AAG	5'-gTT	5'-gTC	5'-gTC	5'-Agg	5'-TGA	5'-gTC	5'-CCA	5'-gTT	5'-CCA	5'-AgA	5'-AgT	5'-CCA	5'-CCA	5'-GCC	5'-Agg	5'-TCg	
	302	618	341	512	121	601	512	601	90	512	618	601	343	618	337	512	601	601	90	490	427	341	341	618	270	618	289	618	341	341	289	302	
3'-primer(s) <sup>3</sup>	853				539			1016	302				343	616					97	618	1043	618	618	527	618	618	618				341	341	341
	5'-CAT	5'-CT	5'-CgT	5'-CCA	5'-TCT	5'-CTT	5'-CCA	5'-CTC	5'-Ag	5'-CCA	5'-CT	5'-CTT	5'-g	5'-AgT	5'-TgT	5'-gTA	5'-CAA	5'-CT	5'-CCC	5'-gTg	5'-TgA	5'-gTA	5'-CT	5'-CCC	5'-CT	5'-CT	5'-AgC	5'-CT	5'-CT	5'-AgT	5'-ggT	5'-Tg	
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	



101.615-24/04 – including Taq pol., IFU-01  
101.615-24u/04u – without Taq pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: 66N

Lot-specific information

<b>INTERPRETATION TABLE</b>																															
<b>HLA-C*07 SSP subtyping</b>																															
Amplification patterns of the C*07:01 to C*07:220 alleles																															
Well <sup>16</sup>																															
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



101.615-24/04 – including *Taq* pol., IFU-01  
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **66N**

## Lot-specific information

Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	105	100	125	175	255	60	415	245			
PCR product(s)	425				245	145		505	240		300				460	290			230	355	220		185			150	300	250	100				285		
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-C allele <sup>4,5</sup>																																			
*07:01:01-07:01:04, 07:01:06-07:01:24, 07:103, 07:111, 07:113, 07:115-07:116, 07:128, 07:131, 07:134, 07:156, 07:162-07:163, 07:166, 07:170, 07:182, 07:188- 07:190, 07:197, 07:200- 07:201, 07:204, 07:206, 07:214-07:215, 07:219	1	2	3																																
*07:01:05, 07:110	1		3																																
*07:02:01:01-07:02:29, 07:102, 07:105, 07:107, 07:114, 07:133, 07:135- 07:136, 07:144, 07:146, 07:149, 07:157-07:160, 07:167, 07:169, 07:174- 07:175, 07:178, 07:185, 07:187, 07:193-07:195, 07:208-07:209, 07:211, 07:213, 07:217, 07:220	1			4											16																				
*07:03	1				5															20															
*07:04:01-07:04:07, 07:139, 07:142, 07:199	1					6									16	17																			
*07:05	1	2					7								16																				
*07:06	1	2	3					8													21														
*07:07	1	2							9											19															32
*07:08	1								10						16																				
*07:09	1	2	3						9																										32
*07:10	1			4						11					16																				
*07:11	1					6						13		16	17																				
*07:12	1					6						12																							
*07:13	1			4										14	16																				
*07:14	1	2													15	16																			
*07:15	1			4											16					18															
*07:16	1	2																		19															
*07:17	1																				20														
*07:18	1	2	3																			21													
*07:19	1		3	4																		21													
*07:20	1	2	3																			22													
*07:21	1	2	3																																
*07:22	1	2	3																																
*07:23	1			4											16																				
*07:24	1	2	3							11																									
*07:25, 07:138	1			4											16																				
*07:26	1	2	3																																
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			

101.615-24/04 – including *Taq* pol., IFU-01  
 101. 615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **66N**

Lot-specific information

230		205		270		105		360		320		265		265		195		135		255		100		440		205		255		140		205		100		175		140		105		195		165		475		350		315		200		455		420		200		400		220		220		155		170		105		285		235		65		280		205		65		155		110		370		340		235		120		290		150		255		210		175		450		80		200		370		305		130		405		245		70		280		200		320		275		225		135		Length of spec.		PCR product(s)	
Well No.																																																																																																																																											
HLA-C allele <sup>4,5</sup>																																																																																																																																											
*07:01:01-07:01:04, 07:01:06-07:01:24, 07:103, 07:111, 07:113, 07:115-07:116, 07:128, 07:131, 07:134, 07:156, 07:162-07:163, 07:166, 07:170, 07:182, 07:188- 07:190, 07:197, 07:200- 07:201, 07:204, 07:206, 07:214-07:215, 07:219																																																																																																																																											
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*07:02:01:01-07:02:29, 07:102, 07:105, 07:107, 07:114, 07:133, 07:135- 07:136, 07:144, 07:146, 07:149, 07:157-07:160, 07:167, 07:169, 07:174- 07:175, 07:178, 07:185, 07:187, 07:193-07:195, 07:208-07:209, 07:211, 07:213, 07:217, 07:220																																																																																																																																											
*07:03																																																																																																																																											
*07:04:01-07:04:07, 07:139, 07:142, 07:199																																																																																																																																											
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Well No.																																																																																																																																											

101.615-24/04 – including *Taq* pol., IFU-01  
 101. 615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **66N**

Lot-specific information

Length of spec.	245	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	105	100	125	175	255	60	415	245		
PCR product(s)	425					245	145		505	240		300				460	290			230	355	220		185		150	250	250					285		
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			
*07:27:01-07:27:02	1	2														16																			
*07:28	1	2	3											14																					
*07:29	1			4					9							16																			
*07:30	1	2	3																						25										
*07:31	1	2														16										26									
*07:32N	1			4												16										26									
*07:33N	1			4					9							16			19																
*07:35	1	2	3																										28						
*07:36	1	2	3																											29					
*07:37	1			4												16											27								
*07:38	1			4												16																			
*07:39	1			4												16																		31	
*07:40	1	2	3																															31	
*07:41	1											12																							
*07:42	1			4												16														29					
*07:43	1	2									11					16																			
*07:44	1	2	3																		20								28						
*07:45	1							8								16																			
*07:46	1			4												16									25										
*07:47	1			4												16													28						
*07:48	1			4												16					20														
*07:49	1			4					9							16																			32
*07:50	1			4												15	16																		
*07:51	1			4												16					19														
*07:52	1	2	3																		18														
*07:53	1	2	3		5																														
*07:54	1			4												16							21												
*07:55N	1	2	3																								26								
*07:56:01-07:56:02	1			4										13		16																			
*07:57	1		3		5																														
*07:58	1	2	3																																
*07:59	1	2	3																																
*07:60	1	2												13																					32
*07:61N	1			4												16																			
*07:62	1			4												16																			
*07:63	1					6										16	17																		
*07:64	1			4												16																			
*07:65	1	2	3																																
*07:66	1			4												16																			
*07:67	1			4												16																			
*07:68	1			4		6										16	17																		
*07:69	1	2	3																									27							
*07:70	1	2	3																																
*07:71	1	2	3																																
*07:72	1			4												16																			
*07:73	1	2	3																																
*07:74	1			4												16																			
*07:75	1			4												16																		30	
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			



101.615-24/04 – including *Taq* pol., IFU-01  
 101. 615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: 66N

Lot-specific information

		Length of spec.																																																																					
		PCR product(s)																																																																					
230	205	270	105	360	320	265	265	195	135	255	100	440	205	255	140	205	100	175	140	105	195	165	475	350	315	200	420	455	420	200	400	220	220	155	170	105	285	235	65	280	205	65	155	110	370	340	235	120	290	150	255	210	175	450	80	200	370	305	130	405	245	70	280	200	320	275	225	135			Well No.
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.																																					
		*07:27:01-07:27:02																																																																					
		*07:28																																																																					
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		*07:56:01-07:56:02																																																																					
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36		*07:73																																																																					
		*07:74																																																																					
		*07:75																																																																					
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.																																					



101.615-24/04 – including *Taq* pol., IFU-01  
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **66N**

## Lot-specific information

Length of spec.	245	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	105	100	125	175	255	60	415	245	
PCR product(s)	425					245	145		505	240		300				460			230	355	170		225	250	185		150	250					285	
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		
*07:76	1			4					9							16																		32
*07:77	1	2	3																															
*07:78	1	2	3																															
*07:79	1			4									13			16																		32
*07:80	1			4												16				19														
*07:81	1	2	3																		20													
*07:82	1	2	3																															
*07:83	1	2	3																															
*07:84	1			4												16							22											
*07:85	1	2	3																															
*07:86	1	2	3																															
*07:87	1			4												16																		
*07:88	1			4												16																		
*07:89	1	2	3												15																			
*07:90	1			4												16																		
*07:91	1	2	3																															
*07:92	1	2	3																	19														
*07:93, 07:207 <sup>6</sup>	1	2	3																															
*07:94	1	2	3																															
*07:95	1	2	3																															
*07:96	1	2	3																	19			22											
*07:97	1			4												16																		
*07:98N	1	2	3																															
*07:99, 07:183	1			4												16																		
*07:100, 07:161 <sup>7</sup>	1			4												16																		
*07:101	1					6										16	17																	
*07:104N, 07:119, 07:124 <sup>8</sup>	1	2	3																															
*07:106	1	2	3																															
*07:108	1		3							10																								
*07:109	1	2											13																					
*07:112	1		3								11																							
*07:117, 07:121Q, 07:126 <sup>9</sup>	1			4												16																		
*07:118, 07:203 <sup>10</sup>	1	2	3																															
*07:120	1	2	3																															
*07:122, 07:151 <sup>11</sup>	1	2	3																															
*07:123	1			4												16																		
*07:125	1			4												16																		
*07:127	1			4												16							22											
*07:129, 07:153 <sup>12</sup>	1	2	3																															
*07:130	1			4												16																		
*07:132, 07:179 <sup>13</sup>	1	2	3																															
*07:137:01	1			4												16								24										
*07:137:02, 07:186	1			4												16																		
*07:140	1	2	3																		20													
*07:141	1	2	3																		20													
*07:143	1			4												16																		
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		



101.615-24/04 – including *Taq* pol., IFU-01  
 101. 615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

**Lot No.: 66N**

**Lot-specific information**

																																	Length of spec.										
																																	PCR product(s)										
230	205	270	105	360	320	265	265	135	100	205	140	100	105	165	475	200	200	220	155	105	65	65	110	120	150	210	175	80	200	130	70	200	275	135		Well No.							
								405	195	255	440	255	250	175		420	350	455		425	285	280		370	340	290	255		450		370	405	405	280	320	225							
33	34	35	36									40																												*07:76			
												40																													*07:77		
												40																														*07:78	
																																										*07:79	
																																										*07:80	
																																										*07:81	
33																																										*07:82	
																																											*07:83
																																											*07:84
																																											*07:85
																																											*07:86
																																											*07:87
																																											*07:88
																																											*07:89
																																											*07:90
																																											*07:91
																																											*07:92
																																										*07:93, 07:207 <sup>6</sup>	
																																										*07:94	
																																										*07:95	
																																										*07:96	
																																										*07:97	
																																										*07:98N	
																																										*07:99, 07:183	
																																										*07:100, 07:161 <sup>7</sup>	
																																									*07:101		
																																										*07:104N, 07:119, 07:124 <sup>8</sup>	
																																										*07:106	
																																										*07:108	
																																										*07:109	
																																										*07:112	
																																										*07:117, 07:121Q, 07:126 <sup>9</sup>	
																																										*07:118, 07:203 <sup>10</sup>	
																																										*07:120	
																																										*07:122, 07:151 <sup>11</sup>	
																																										*07:123	
																																										*07:125	
																																										*07:127	
																																										*07:129, 07:153 <sup>12</sup>	
																																										*07:130	
																																										*07:132, 07:179 <sup>13</sup>	
																																									*07:137:01		
																																									*07:137:02, 07:186		
																																									*07:140		
																																									*07:141		
																																									*07:143		
33	34	35	36																																						Well No.		



101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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“Instructions for Use” (IFU)

Lot No.: **66N**

Lot-specific information

Length of spec.	245	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	105	100	125	175	255	60	415	245				
PCR product(s)	425					145			505	240		300				460			230	355	170		225	250	185		150	250		260				285			
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					
*07:145	1			4												16																					
*07:147	1			4												16																					
*07:148	1	2	3																																		
*07:150Q	1	2	3																																		
*07:152N	1			4												16																					
*07:154	1			4												16																					
*07:155	1			4												16																					
*07:164N, 07:212 <sup>14</sup>	1	2	3																																		
*07:165, 07:180 <sup>15</sup>	1	2	3																																		
*07:168	1			4												16				20																	
*07:171	1																																				
*07:172	1			4												16																					
*07:173	1	2	3																																		
*07:176	1	2	3																																		
*07:177	1								9							16				19								26							31		
*07:181	1					6										16	17			19																	
*07:184	1	2							9		11					16																					
*07:191N	1	2	3																																		
*07:192	1			4												16																					
*07:196	1	2	3								11																										
*07:198N, 07:218 <sup>17</sup>	1			4												16																					
*07:202	1			4												16																					
*07:205	1	2	3																																		
*07:210	1	2	3						9																										w 32		
*07:216	1			4	5											16																					
*01:60, 03:14, 12:14:01-12:14:02, 14:17, 17:01:01:01-17:04, 17:06-17:11, B*46:06																16																					
*02:14, 03:39, 03:67, 04:42, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:19, 06:04-06:06, 06:08-06:10, 06:12-06:16N, 06:18-06:43, 06:45-06:51, 06:54-06:66, 06:68-06:69, 15:23, B*08:17, B*08:39, B*08:47																																				32	
*02:49, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03, 04:06, 04:16, 04:80, 15:25																																					
*03:04:19, 03:113		2							9		11																										
*03:69, 04:27, 04:52, 12:58														13																							
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					



101.615-24/04 – including *Taq* pol., IFU-01  
 101.615-24u/04u – without *Taq* pol., IFU-02

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

Lot No.: **66N**

## Lot-specific information

Length of spec.	245	290	110	185	70	100	190	285	215	185	275	130	90	240	80	535	130	120	220	145	100	205	155	130	105	100	125	175	255	60	415	245			
PCR product(s)	425				245	145		505	240		300				460	290			230	355	220		185			150	250						285		
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			
*04:34, B*35:178, B*73:01-73:02																																			
*04:40, B*38:23								8																											
*04:58									10						16																				
*05:01:01:01-05:01:16, 05:01:18, 05:04-05:08, 05:10-05:16, 05:18:01- 05:22:02, 05:24-05:41, 05:44-05:45, 05:47- 05:48N, 05:50-05:51Q, 05:53-05:61, 05:63- 05:72, 08:01:01-08:04, 08:06, 08:08-08:14, 08:16-08:20, 08:22- 08:37, 08:39-08:46, 08:48-08:50, 08:52N- 08:56, A*29:10												12																							
*05:01:17		2										12	14							20														27	
*05:03												12							18																
*05:09:02, 08:15:02		2												14						20														27	
*05:17		2												14						20															
*05:23, 08:07, 08:47																16	17																		
*05:42, 05:46, 08:05, 08:21												12																							
*05:43												12																						32	
*05:62						6									16	17																			
*06:07																																		32	
*06:17, 18:01-18:03									9																										32
*06:44			3																																32
*06:53													13																						32
*06:67																																			32
*08:38												12																							
*12:03:10		2																			20			24		26									
*17:05																16																			
*18:04									9																										32
*18:05			3						9																										32
A*30:01:03																					20														
A*33:03:09																					20			24											
B*07:77																								18											
B*07:87, B*27:55																																			
B*27:36, B*48:21, B*48:26							7																												
B*35:08:04		2								11											20							27							
B*37:04:02										11			14									20													
B*40:60				4																				18											
B*40:100										10																									
B*56:08																										w									
B*56:14																										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			

101.615-24/04 – including *Taq* pol., IFU-01  
 101.615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **66N**

Lot-specific information

230		205		270		105		360		320		265		265		195		135		255		100		440		205		255		140		205		100		175		140		105		195		165		475		350		315		200		420		455		420		200		400		220		220		155		170		105		285		235		65		280		205		65		155		110		370		340		235		120		290		150		255		210		175		450		80		200		370		305		130		405		245		70		280		200		320		275		225		135		Length of spec.		PCR product(s)	
Well No.																																																																																																																																													
																																	45		*04:34, B*35:178, B*73:01-73:02 *04:40, B*38:23 *04:58																																																																																																										
																																	*05:01:01:01-05:01:16, 05:01:18, 05:04-05:08, 05:10-05:16, 05:18:01- 05:22:02, 05:24-05:41, 05:44-05:45, 05:47- 05:48N, 05:50-05:51Q, 05:53-05:61, 05:63- 05:72, 08:01:01-08:04, 08:06, 08:08-08:14, 08:16-08:20, 08:22- 08:37, 08:39-08:46, 08:48-08:50, 08:52N- 08:56, A*29:10 *05:01:17 *05:03 *05:09:02, 08:15:02																																																																																																												
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																																	57		60		*05:17 *05:23, 08:07, 08:47 *05:42, 05:46, 08:05, 08:21 *05:43																																																																																																								
																																	49		*05:62 *06:07 *06:17, 18:01-18:03 *06:44																																																																																																										
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																																	49		*06:53 *06:67 *08:38 *12:03:10																																																																																																										
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																																	37		A*30:01:03 A*33:03:09 B*07:77 B*07:87, B*27:55 B*27:36, B*48:21, B*48:26 B*35:08:04 B*37:04:02 B*40:60 B*40:100 B*56:08 B*56:14																																																																																																										
																																	42		56		59																																																																																																								
																																	37		53		59																																																																																																								
Well No.																																																																																																																																													



101.615-24/04 – including *Taq* pol., IFU-01  
 101. 615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

**Lot No.: 66N****Lot-specific information**

<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-C\*07 subtyping.

In addition, wells number 2, 3, 5, 9, 11, 14, 18, 19, 21, 22, 28, 39, 49, 57 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>2</sup>The nucleotide position, in the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> or 7<sup>th</sup> exon or the 3<sup>rd</sup> or 6<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 the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 6<sup>th</sup> or 7<sup>th</sup> exon or the 3<sup>rd</sup> intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla) web site. The sequence of the 3 terminal nucleotides of the primer is given.

<sup>4</sup>The HLA-Cw\*0734 allele has been renamed to HLA-C\*07:27:02.

<sup>5</sup>HLA-C\*07 alleles in bold lettering are listed as confirmed alleles on the IMGT/HLA web page [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), release 3.7.0, January 2012.

<sup>6</sup>The C\*07:93 and 07:207 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 42.

<sup>7</sup>The C\*07:100 and 07:161 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 49.

<sup>8</sup>The C\*07:104N, 07:119 and 07:124 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 50.

<sup>9</sup>The C\*07:117, 07:121Q and 07:126 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 51.

<sup>10</sup>The C\*07:118 and 07:203 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 52.

<sup>11</sup>The C\*07:122 and 07:151 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 53.

<sup>12</sup>The C\*07:129 and 07:153 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 54.

<sup>13</sup>The C\*07:132 and 07:179 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 55.

<sup>14</sup>The C\*07:164N and 07:212 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 58.

<sup>15</sup>The C\*07:165 and 07:180 alleles can be distinguished by the different sizes of the specific PCR products generated by primer mix 60.

<sup>16</sup>Primer mix 1: Specific PCR fragment of 245 bp in the C\*07:07, 07:09, 07:49 and 07:76, 07:115, and 07:210 alleles. Specific PCR fragment of 425 bp in the C\*07:02:21, 07:41 and 07:166 alleles. Specific PCR fragment of 245 and 425 bp in the C\*07:01:01-07:06, 07:08, 07:10-07:33N, \*07:35-07:40, 07:42-07:48, 07:50-07:75, 07:77-07:114 and 07:211-07:220 alleles.

Primer mix 5: Specific PCR fragment of 70 bp in the C\*07:53 and 07:216 alleles. Specific PCR fragment of 145 bp in the C\*07:57 allele. Specific PCR fragment of 245 bp in the C\*07:03 allele.

Primer mix 8: Specific PCR fragment of 285 bp in the C\*07:45 and the C\*04:40 and in the B\*38:23alleles. Specific PCR fragment of 505 bp in the C\*07:06 allele.

Primer mix 9: Specific PCR fragment of 215 bp in the C\*07:33N allele. Specific PCR fragment of 240 bp in the C\*07:29, 07:177 and 07:184 and in the C\*03:04:19 and 03:113 alleles. Specific PCR fragment of 425 bp in the C\*07:07, 07:09, 07:49, 07:76 and 07:210 and in the C\*06:17 and 18:01-18:05 alleles.

Primer mix 11: Specific PCR fragment of 275 bp in the C\*07:24 and 07:218 alleles. Specific PCR fragment of 300 bp in the C\*07:10, 07:43, 07:112, 07:184 and 07:196 and the C\*03:04:19 and 03:113 and in the B\*35:08:04 and B\*37:04:02 alleles.

Primer mix 15: Specific PCR fragment of 80 bp in the C\* 07:50 allele. Specific PCR fragment of 290 bp in the C\*07:14 allele. Specific PCR fragment of 460 bp in the C\*07:89 allele.

Primer mix 18: Specific PCR fragment of 120 bp in the C\*07:52 and the C\*05:03 alleles. Specific PCR fragment of 230 bp in the C\*07:15 and in the B\*07:77 and B\*40:60 alleles.

101.615-24/04 – including *Taq* pol., IFU-01  
101. 615-24u/04u – without *Taq* pol., IFU-02

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**Lot No.: 66N****Lot-specific information**

Primer mix 19: Specific PCR fragment of 220 bp in the C\*07:26, 07:33N, 07:92 and 07:96 alleles. Specific PCR fragment of 355 bp in the C\*07:80 allele. Specific PCR fragment of 465 bp in the C\*07:07, 07:16, 07:51, 07:177 and 07:181 alleles.

Primer mix 20: Specific PCR fragment of 145 bp in the C\*07:03, 07:17 and 07:140-07:141 and the C\*03:04:19, 03:113, 05:01:17, 05:09:02, 05:17, 08:15:02 and 12:03:10 and in the A\*30:01:03 and A\*33:03:09 alleles. Specific PCR fragment of 170 bp in the 07:44 and 07:48 alleles. Specific PCR fragment of 195 bp in the C\*07:81 allele. Specific PCR fragment of 145 bp and 195 bp in the B\*35:08:04 and B\*37:04:02 alleles.

Primer mix 21: Specific PCR fragment of 100 bp in the C\*07:54 allele. Specific PCR fragment of 225 bp in the C\*07:06, 07:18 and 07:19 alleles.

Primer mix 22: Specific PCR fragment of 205 bp in the C\*07:84 allele. Specific PCR fragment of 250 bp in the C\*07:20, 07:96 and 07:127 and in the C\*02:49, 03:15, 03:32, 03:45, 03:60, 03:136, 04:03, 04:06, 04:16, 04:80, 15:25 alleles.

Primer mix 23: Specific PCR fragment of 155 bp in the C\*07:23 allele. Specific PCR fragment of 185 bp in the C\*07:21 allele.

Primer mix 25: Specific PCR fragment of 105 bp in the C\*07:46 and B\*56:06<sup>w</sup> and B\*56:14 alleles. Specific PCR fragment of 150 bp in the C\*07:30 allele.

Primer mix 26: Specific PCR fragment of 100 bp in the C\*07:32N allele. Specific PCR fragment of 250 bp in the C\*07:55N allele. Specific PCR fragment of 300 bp in the C\*07:31 and 07:177 and the C\*12:03:10 alleles.

Primer mix 28: Specific PCR fragment of 175 bp in the C\*07:44 allele. Specific PCR fragment of 260 bp in the C\*07:35 and 07:47 alleles.

Primer mix 32: Specific PCR fragment of 245 bp in the C\*07:07, 07:09, 07:49, 07:76 and 07:210 and the C\*02:14, 04:42, 05:43, 06:02:01:01-06:02:01:02, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:19, 06:04-06:10, 06:12-06:51, 06:53-06:69, 15:23 and 18:01-18:05 and in the B\*08:17 and B\*08:47 alleles. Specific PCR fragment of 285 bp in the C\*07:60 and 07:79 and the C\*03:39 and 03:67 and the B\*08:39 alleles.

Primer mix 33: Specific PCR fragment of 205 bp in the C\*07:66 allele. Specific PCR fragment of 230 bp in the C\*07:82 allele.

Primer mix 34: Specific PCR fragment of 105 bp in the C\*07:67 allele. Specific PCR fragment of 270 bp in the C\*07:70 allele.

Primer mix 35: Specific PCR fragment of 320 bp in the C\*07:72 allele. Specific PCR fragment of 360 bp in the C\*07:71 allele.

Primer mix 38: Specific PCR fragment of 135 bp in the C\*07:58 allele. Specific PCR fragment of 195 bp in the C\*07:65 allele. Specific PCR fragment of 405 bp in the C\*07:61N allele.

Primer mix 39: Specific PCR fragment of 100 bp in the C\*07:74 allele. Specific PCR fragment of 255 bp in the C\*07:59 allele.

Primer mix 40: Specific PCR fragment of 205 bp in the C\*07:62 allele. Specific PCR fragment of 440 bp in the C\*07:07, 07:09, 07:76 and 07:78 and in the C\*06:17 and 18:01-18:05 alleles.

Primer mix 41: Specific PCR fragment of 140 bp in the C\*07:91 allele. Specific PCR fragment of 255 bp in the C\*07:88 allele.

Primer mix 42: Specific PCR fragment of 100 bp in the C\*07:15 and 07:207 alleles. Specific PCR fragment of 205 bp in the C\*07:77 and 07:93 alleles. Specific PCR fragment of 250 bp in the C\*07:123 and 07:173 and the B\*35:08:04 alleles.

Primer mix 43: Specific PCR fragment of 105 bp in the C\*07:94 and 07:183 alleles. Specific PCR fragment of 140 bp in the C\*07:99 allele. Specific PCR fragment of 175 bp in the C\*07:80 allele.

Primer mix 44: Specific PCR fragment of 165 bp in the C\*07:98N allele. Specific PCR fragment of 195 bp in the C\*07:65 and 07:77 alleles.

Primer mix 46: Specific PCR fragment of 200 bp in the C\*07:83 allele. Specific PCR fragment of 315 bp in the C\*07:202 allele. Specific PCR fragment of 350 bp in the C\*07:90 allele. Specific PCR fragment of 420 bp in the C\*07:152N allele.

Primer mix 47: Specific PCR fragment of 200 bp in the C\*07:86 allele. Specific PCR fragment of 420 bp in the C\*07:152N allele. Specific PCR fragment of 455 bp in the C\*07:97 allele.

Primer mix 48: Specific PCR fragment of 220 bp in the C\*07:87 allele. Specific PCR fragment of 400 bp in the C\*07:85 allele.

Primer mix 49: Specific PCR fragment of 155 bp in the C\*07:101, 07:148, 07:161, 05:42, 05:46, 06:67, 08:05, 08:21, 17:05 allele. Specific PCR fragment of 220 bp in the C\*07:100 allele.



101.615-24/04 – including *Taq* pol., IFU-01  
101.615-24u/04u – without *Taq* pol., IFU-02

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**Lot No.: 66N****Lot-specific information**

Primer mix 50: Specific PCR fragment of 105 bp in the C\*07:104N allele. Specific PCR fragment of 170 bp in the C\*07:119 and in the B\*07:87 and B\*27:55 alleles. Specific PCR fragment of 425 bp in the C\*07:124 and 07:155 alleles.

Primer mix 51: Specific PCR fragment of 65 bp in the C\*07:126 allele. Specific PCR fragment of 235 bp in the C\*07:121Q allele. Specific PCR fragment of 285 bp in the C\*07:117 allele.

Primer mix 52: Specific PCR fragment of 65 bp in the C\*07:203 allele. Specific PCR fragment of 205 bp in the C\*07:118 allele. Specific PCR fragment of 280 bp in the C\*07:106 allele.

Primer mix 53: Specific PCR fragment of 110 bp in the C\*07:140, 07:151 and 07:154 and in the B\*37:04:02 alleles. Specific PCR fragment of 155 bp in the C\*07:122 allele.

Primer mix 54: Specific PCR fragment of 120 bp in the C\*07:153 allele. Specific PCR fragment of 235 bp in the C\*07:64 allele. Specific PCR fragment of 340 bp in the C\*07:125 allele. Specific PCR fragment of 370 bp in the C\*07:129 allele.

Primer mix 55: Specific PCR fragment of 150 bp in the C\*07:179 and the C\*06:07 alleles. Specific PCR fragment of 290 bp in the C\*07:132 allele.

Primer mix 56: Specific PCR fragment of 210 bp in the C\*07:150Q allele. Specific PCR fragment of 255 bp in the C\*07:123, 07:143 and 07:173 and the B\*35:08:04 alleles.

Primer mix 58: Specific PCR fragment of 80 bp in the C\*07:137:01-07:137:02, 07:186 and 07:212 alleles. Specific PCR fragment of 450 bp in the C\*07:164N allele.

Primer mix 60: Specific PCR fragment of 130 bp in the C\*07:165 and the C\*03:04:19, 03:113, 05:01:17, 05:09:02, 08:15:02 and 12:03:10 alleles. Specific PCR fragment of 305 bp in the C\*07:147 allele. Specific PCR fragment of 370 bp in the C\*07:180 allele.

Primer mix 62: Specific PCR fragment of 200 bp in the C\*07:84 and 07:205 alleles. Specific PCR fragment of 280 bp in the C\*07:106 allele.

Primer mix 63: Specific PCR fragment of 275 bp in the C\*07:24 and 07:218 alleles. Specific PCR fragment of 320 bp in the C\*07:198N and 07:202 alleles.

Primer mix 64: Specific PCR fragment of 135 bp in the C\*07:69 allele. Specific PCR fragment of 225 bp in the C\*07:192 allele.

<sup>17</sup>This lot of the HLA-C\*07 subtyping kit cannot distinguish the C\*07:198N and the C\*07:218 alleles. ‘w’, may be weakly amplified.

101.615-24/04 – including *Taq* pol., IFU-01  
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **66N**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-C*07 SSP subtyping kit</b>																			
				Well															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			Prod. No.:	201069801	201189502	201189503	201069804	201200505	201069806	201069807	201069808	201069809	201069810	201200511	201069812	201069813	201069814	201200515	201200516
	IHCW cell line	C*																	
1	9001 SA	*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
2	9280 LK707	*07:01	*15:05	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	+	+	-	-	-	-	+	-	-	-	-	-	-	-	-	+
19	9038 BM16	*07:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
26	9285 WT49	*07:01		+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU	*07:02		+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
47	9045 TUBO	*07:04	*15:02	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.615-24/04 – including *Taq* pol., IFU-01  
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **66N**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																			
<b>HLA-C*07 SSP subtyping kit</b>																			
			Prod. No.:	Well															
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	IHWC cell line	C*		201069817	201069818	201069819	201200520	201069821	201069822	201184123	201189524	201069825	201069826	201200527	201189528	201189529	201189530	201200531	201069832
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.615-24/04 – including *Taq* pol., IFU-01  
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **66N**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-C*07 SSP subtyping kit</b>																				
			Prod. No.:	Well																
				33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
	IHWC cell line	C*		201189533	201200534	201200535	201069836	201069837	201069838	201069839	201069840	201069841	201200542	201200543	201200544	201069845	201200546	201200547	201069848	
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	9302 SSTO	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024 KT17	*03:03	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065 HHKB	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099 LZL	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	9066 TAB089	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	9076 T7526	*01:02	*08:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	9057 TEM	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	9239 SHJO	*06:02	*17:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.615-24/04 – including *Taq* pol., IFU-01  
 101.615-24u/04u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **66N**

Lot-specific information

<b>CELL LINE VALIDATION SHEET</b>																				
<b>HLA-C*07 SSP subtyping kit</b>																				
				Well																
				49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	
			Prod. No.:	201200549	201200550	201200551	201200552	201200553	201200554	201200555	201200556	201200557	201200558	201200559	201200560	201200561	201200562	201200563	201200564	
	<b>IHWC cell line</b>	<b>C*</b>																		
1	9001 SA	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280 LK707	*07:01	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	9011 E4181324	*12:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275 GU373	*03:04	*04:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009 KAS011	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9353 SM	*03:04	*07:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	9020 QBL	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025 DEU	*04:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026 YAR	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107 LKT3	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051 PITOUT	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052 DBB	*06:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004 JESTHOM	*01:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071 OLGA	*01:02	*03:04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075 DKB	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037 SWEIG007	*02:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282 CTM3953540	*03:03	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	9257 32367	*01:02	*07:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	9038 BM16	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059 SLE005	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064 AMALA	*03:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056 KOSE	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124 IHL	*01:02	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035 JBUSH	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	9049 IBW9	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	9285 WT49	*07:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191 CH1007	*07:04	*15:05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	9320 BEL5GB	*05:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050 MOU	*16:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021 RSH	*17:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	9019 DUCAF	*05:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297 HAG	*17:01	*17:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	9098 MT14B	*03:04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104 DHIF	*12:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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39	9315 CML	*02:02	*07:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	9134 WHONP199	*01:02	*06:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9055 H0301	*08:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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46	9013 SCHU	*07:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045 TUBO	*07:04	*15:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	9303 TER-ND	*04:01	*16:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



101.615-24/04 – including *Taq* pol., IFU-01  
 101.615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **66N**

Lot-specific information

## CERTIFICATE OF ANALYSIS

### Olerup SSP® HLA-C\*07 SSP

Product number: 101.615-24/04 – including *Taq* pol.  
 101.615-24u/04u – without *Taq* pol.  
 Lot number: 66N  
 Expiry date: 2014-October-01  
 Number of tests: 24 tests – Product No. 101.615-24  
 4 tests – Product No. 101.615-04  
 Number of wells per test: 64

### Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2010-698-01	25	2010-698-25	49	2012-005-49
2	2011-895-02	26	2010-698-26	50	2012-005-50
3	2011-895-03	27	2012-005-27	51	2012-005-51
4	2010-698-04	28	2011-895-28	52	2012-005-52
5	2012-005-05	29	2011-895-29	53	2012-005-53
6	2010-698-06	30	2011-895-30	54	2012-005-54
7	2010-698-07	31	2012-005-31	55	2012-005-55
8	2010-698-08	32	2010-698-32	56	2012-005-56
9	2010-698-09	33	2011-895-33	57	2012-005-57
10	2010-698-10	34	2012-005-34	58	2012-005-58
11	2012-005-11	35	2012-005-35	59	2012-005-59
12	2010-698-12	36	2010-698-36	60	2012-005-60
13	2010-698-13	37	2010-698-37	61	2012-005-61
14	2010-698-14	38	2010-698-38	62	2012-005-62
15	2012-005-15	39	2010-698-39	63	2012-005-63
16	2012-005-16	40	2010-698-40	64	2012-005-64
17	2010-698-17	41	2010-698-41		
18	2010-698-18	42	2012-005-42		
19	2010-698-19	43	2012-005-43		
20	2012-005-20	44	2012-005-44		
21	2010-698-21	45	2010-698-45		
22	2010-698-22	46	2012-005-46		
23	2011-841-23	47	2012-005-47		
24	2011-895-24	48	2010-698-48		

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

No DNAs carrying the alleles to be amplified by primer solutions 5, 10, 11, 13 to 15, 18, 19, 23 to 31, 34 to 39, 41 to 44 and 46 to 64 were available.

The specificities of the primers in primer solutions 5, 10, 11, 13 to 15, 18, 19, 24 to 27, 31, 36 to 38, 42 to 44, 46 to 50, 53, 54, 56 to 60, 63 and 64 were tested by separately adding one 5'-primer, respectively one 3'-primer. In primer solutions 35, 51 and 61 it was only possible to test the 5'-primer, the 3'-primer

101.615-24/04 – including *Taq* pol., IFU-01  
101. 615-24u/04u – without *Taq* pol., IFU-02

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**Lot No.: 66N**

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were not possible to test. In primer solutions 23, 28 to 30, 34, 39, 41, 52, 55 and 62 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. In primer solutions 8, 11, 20, 22, 26, 33, 37, 38, 42, 44, 46 to 49, 53, 56, 59 and 63 one or two 5'-primers were not possible to test, and in primer solutions 5, 9, 13, 15, 18, 19, 21, 25, 32, 38, 40, 43, 46 to 48, 50, 54, 58, 60, 63 and 64 one or two 3'-primers were not possible to test.

Additional primers in primer solutions 2, 8, 9, 20, 21 and 33 were tested by separately adding either one 5'-primer or one 3'-primer.

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

**Date of approval:** 2012-May-11

**Approved by:**

**Production Quality Control**



101.615-24/04 – including *Taq* pol., IFU-01  
101. 615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **66N**

Lot-specific information

## Declaration of Conformity

**Product name:** *Olerup* SSP® HLA-C\*07  
**Product number:** 101.615-24/24u, -04/04u  
**Lot number:** 66N

**Intended use:** HLA-C\*07 high resolution histocompatibility testing

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

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

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

Stockholm, Sweden  
2012-May-11

Ann-Cathrin Jareman  
Head of QA and Regulatory Affairs

101.615-24/04 – including *Taq* pol., IFU-01  
101. 615-24u/04u – without *Taq* pol., IFU-02

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Lot No.: **66N**

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**E-mail:** [support-at@olerup.com](mailto:support-at@olerup.com)

**Web page:** <http://www.olerup.com>

**Olerup Inc.**, 901 S. Bolmar St., Suite R, West Chester, PA 19382

**Tel:** 1-877-OLERUP1

**Fax:** 610-344-7989

**E-mail:** [info.us@olerup.com](mailto:info.us@olerup.com)

**Web page:** <http://www.olerup.com>

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