HLA-C\*15 (101.626-12/12u) Lot No: 0R9 Expiry Date: 2026-07-01

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sample ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DNA Conc.(ng/ul):\_\_\_\_\_\_\_\_\_

Test Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tested By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Review Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reviewed By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Interpretation:\_\_\_\_\_\_\_\_\_\_\_ Failed lanes: \_\_\_\_\_\_\_\_\_\_\_\_ Comments:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

**Gel Picture**

|  |
| --- |
| PHOTO DOCUMENT |



Abbreviations

ICB: Internal Control Band

AmpS: Amplicon Size

**Notes:**

Product sizes are approximate. For detailed information, see the lot-specific Specificity Table and Interpretation Table.

This table is intended as a guide. For interpretation always use the Interpretation Table and/or Specificity Table.

HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

Primer mixes 5 and 23 may give rise to a lower yield of HLA-specific PCR product than the other C\*15 primer mixes.

Primer mixes 17, 18 and 27 may have tendencies of unspecific amplifications.

Primer mix 44 contains a negative control, which will amplify the majority of HLA amplicons as well as the amplicons generated by the control primer pairs matching the human growth hormone gene. HLA-specific PCR product sizes range from 75 to 200 base pairs and the PCR product generated by the HGH positive control primer pair is 200 base pairs.































**1**HLA-C\*15 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 3.26.0, October 2016.

**2**Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <http://hla.alleles.org/alleles/deleted.html>.

**3**The following HLA-C\*15 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-C\*15 alleles | Other amplified HLA Class I alleles |
| **3** | 85 bp  210 bp | \*15:28, 15:153  \*15:03, 15:16:01-15:16:02, 15:25w | \*03:15, 03:27w, 03:38:01w-03:38:02w, 03:69w, 03:130, 03:136w, 03:163, 03:246w, 03:297, 03:431w, 03:461, 04:16, 04:351:01-04:351:02, 06:03:01, 06:70:02, 06:132:01-06:132:02, 07:02:10w, 07:96:01w-07:96:02w, 07:127:01w, 07:246:01w, 07:263w, 07:314:02w, 07:578w, 07:989w, 12:02:17w, 12:03:23w, 12:140:02w, 12:353 |
| **5** | 100 bp  160 bp | \*15:05:01:01-15:05:07, 15:05:09-15:05:18, 15:22-15:23:02, 15:29, 15:36, 15:46, 15:54, 15:59, 15:69-15:70, 15:90, 15:104, 15:108, 15:110-15:111, 15:115N-15:117, 15:125, 15:140, 15:147-15:148, 15:152:01-15:153,  15:164N-15:165, 15:167, 15:169, 15:181, 15:185N, 15:201, 15:204, 15:208, 15:218, 15:224, 15:229, 15:233-15:235Q, 15:244  \*15:92N | \*04:108, 07:626, 12:309, 16:169, **B\*07:246, B\*35:03:11, B\*35:205:01** |
| **6** | 305 bp  345 bp  370 bp | \*15:06:01-15:06:03, 15:40, 15:55, 15:158, 15:177N, 15:180, 15:214  \*15:26, 15:69, 15:194  \*15:22, 15:37, 15:55, 15:58, 15:65, 15:72, 15:125, 15:190, 15:246 |  |
| **8** | 160 bp  185 bp | \*15:08:01-15:08:02, 15:74  \*15:19 | \*01:90w, 01:136, 02:06:01-02:06:02, 02:47, 05:132, 06:168, 06:224, 12:15, 12:208, **B\*07:78w, B\*07:424, B\*13:18w, B\*13:31w, B\*13:41w, B\*13:73w, B\*13:128w, B\*13:131w, B\*13:145w, B\*13:164w, B\*15:73:01:01w-15:73:01:02w, B\*15:303w, B\*15:486w, B\*54:10w, B\*54:20w, B\*54:33w, B\*54:40w, B\*55:09w, B\*55:21w, B\*55:37w, B\*55:52w, B\*56:43w, B\*56:51w, B\*56:63w** |
| **9** | 135 bp  305 bp | \*15:11, 15:23:01-15:23:02, 15:63, 15:118, 15:138, 15:158  \*15:18 | \*02:02:01-02:02:03, 02:02:06-02:02:12, 02:02:14-02:02:25, 02:02:27-02:02:28, 02:02:30-02:20, 02:22-02:25Q, 02:27:01-02:38:02N, 02:40:01-02:40:02, 02:42-02:44, 02:46-02:86, 02:88-02:100, 02:101w, 02:102-02:133, 02:135N-02:151, 02:153-02:166, 02:168-02:188, 02:190, 02:192N-02:212, 04:03:01:01-04:03:08, 04:06:01-04:06:03, 04:42:01-04:42:02, 04:80, 04:107, 04:147, 04:160:01-04:160:02, 04:171, 04:190, 04:220, 04:256, 04:286, 04:294, 04:299, 04:335, 04:337, 04:357, 04:363, 04:381, 04:383, 04:393, 04:400, 04:402, 04:473, 05:26, 05:43, 06:02:72, 06:05, 07:01:74, 07:02:09, 07:125:02, 08:37, 12:16:01, 12:147, 12:195:02, 12:217, 16:21, 16:34, 16:80, 16:121  \*04:210, 04:237, 05:182 |
| **12** | 100 bp  200 bp  240 bp | \*15:28, 15:153  \*15:95N  \*15:07:01:01-15:07:01:02, 15:21, 15:25, 15:43, 15:116, 15:144 | \*01:169:02, 02:12, 02:27:01-02:27:02, 02:115, 02:126, 02:131, 03:02:01-03:02:09, 03:02:11-03:03:14, 03:03:15w, 03:03:16-03:03:20, 03:03:22-03:03:50, 03:03:52-03:03:54, 03:03:55w, 03:03:56-03:04:16, 03:04:18-03:04:25, 03:04:27-03:04:68, 03:04:70-03:04:76, 03:04:77w, 03:04:78-03:04:84, 03:04:86-03:06:02, 03:08-03:11:02, 03:13:01:01-03:14, 03:16-03:17:02, 03:18:02-03:38:02, 03:40:01-03:44, 03:46-03:64:01, 03:65-03:66, 03:68-03:98, 03:100-03:114, 03:116:01-03:129, 03:131-03:133, 03:135-03:136, 03:138-03:139, 03:141-03:143, 03:145-03:155, 03:157-03:162, 03:164-03:165:02, 03:167-03:169Q, 03:171-03:181, 03:183-03:194, 03:196-03:230, 03:232-03:242, 03:244Q-03:246, 03:248-03:263:03, 03:265N-03:267, 03:269-03:277N, 03:278w, 03:279-03:294, 03:295w, 03:296:01-03:296:02, 03:298-03:343, 03:345-03:376, 03:378-03:453, 03:455-03:456, 03:458, 03:460, 03:462N-03:503, 03:505-03:529, 03:531N-03:549, 03:551-03:556, 03:558-03:565, 03:566w, 03:567-03:596, 04:473, 07:96:01-07:96:02, 07:314:02, 07:578, 07:756, 12:02:17, 12:03:23, 12:140:02, 16:34, **B\*15:01:72, B\*15:125:02, B\*40:164, B\*46:01:33, B\*46:77** |
| **13** | 125 bp  185 bp | \*15:24  \*15:12, 15:144 | \*01:116, 04:89, 04:135, 05:47, 14:92  \*03:03:64, 04:52, 04:55, 04:405, 05:55, 12:58, 12:252, 14:10 |
| **14** | 130 bp  440 bp | \*15:13:01:01-15:13:02, 15:103, 15:172  \*15:11, 15:16:01-15:17, 15:43 | \*04:451  \*01:90, 01:136, 01:145:01N, 02:06:01-02:06:02, 02:47, 03:19, 03:102, 03:307, 03:318N, 04:178, 05:132, 06:168, 06:224, 07:289, 08:207, 12:03:66, 12:15, 12:208, **B\*46:11, B\*46:18, B\*56:08, B\*56:14** |
| **16** | 90 bp  165 bp  345 bp | \*15:27  \*15:15, 15:77, 15:195  \*15:26, 15:69, 15:194 | **B\*35:222, B\*35:525, B\*42:22** |
| **17** | 140 bp  215 bp  295 bp | \*15:34  \*15:36  \*15:39, 15:130, 15:195 | \*06:320, 14:81  \*04:112, 04:169, 14:73  \*01:30, 02:142, 05:216:01:01-05:216:01:02, 06:207, 08:51, 08:114, 08:243, 12:87, 14:76 |
| **19** | 165 bp  355 bp | \*15:42, 15:111, 15:201  \*15:46, 15:172 |  |
| **20** | 120 bp  200 bp  235 bp  295 bp | \*15:44:01-15:44:02  \*15:95N  \*15:45  \*15:97 | \*03:148  \*02:200, 03:492, 03:497, 04:146, 06:349, 07:708, 12:254, 12:280 |
| **21** | 165 bp  445 bp | \*15:47, 15:92N  \*15:35 | \*02:35, 02:120, 04:238, 05:21, 06:223 |
| **22** | 225 bp  295 bp | \*15:38  \*15:97 | \*02:200, 03:492, 03:497, 04:146, 06:349, 07:708, 12:254, 12:280 |
| **23** | 175 bp  545 bp | \*15:48  \*15:29, 15:87 | \*01:85, 02:178, 03:357, 03:376, 03:452, 04:277, 05:212, 06:266, 08:22:01:01-08:22:01:02, 08:56, 08:154, 08:178, 08:202, 12:290, 12:304, 16:133 |
| **24** | 175 bp  330 bp  380 bp | \*15:32Q  \*15:105Q  \*15:41 | \*06:74Q |
| **25** | 125 bp  225 bp | \*15:122N  \*15:52:01-15:52:02 | **B\*08:293N, B\*39:95N, B\*52:96N**  **B\*15:363:01-15:363:02, B\*18:91, B\*35:247:01-35:247:02, B\*35:510, B\*39:122, B\*51:188, B\*58:45:01-58:45:02** |
| **27** | 330 bp  375 bp | \*15:30, 15:105Q  \*15:123 | \*02:148, 04:463, 07:174, 07:298, 08:112, 12:165 |
| **28** | 85 bp  180 bp | \*15:33  \*15:84Q | **B\*57:97** |
| **29** | 120 bp  255 bp | \*15:96Q  \*15:81 | \*04:59Q, 04:428Q, 16:16Q, **B\*15:218Q** |
| **34** | 110 bp  140 bp | \*15:108  \*15:114 | \*03:505 |
| **37** | 125 bp  220 bp | \*15:122N  \*15:101 | **B\*08:293N, B\*39:95N, B\*52:96N**  **B\*40:270** |
| **39** | 110 bp  155 bp | \*15:108  \*15:132 | \*03:505 |

**4**The following alleles cannot be separated by the HLA-C\*15 kit. These alleles can be distinguished by the HLA-C low resolution kit and/or the HLA-C\*16 high resolution kit.

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| **Alleles** |
| C\*15:04:01:01-15:04:06, 15:211, 15:236, C\*16:70 |

**5**The following HLA-C\*15 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |  |  |
| --- | --- | --- | --- |
| **Alleles** | **Primer mix** | **Alleles** | **Primer mix** |
| C\*15:18, 15:118, 15:138 | 9 | C\*15:35, 15:47 | 21 |
| C\*15:32Q, 15:41 | 24 | C\*15:44:01-15:45 | 20 |
| C\*15:33, 15:84Q | 28 | C\*15:46, 15:111, 15:201 | 19 |
| C\*15:34, 15:39, 15:130 | 17 | C\*15:81, 15:96Q | 29 |

Abbreviations

w: might be weakly amplified.