Gel Documentation Form and Worksheet

HLA-C\*08 Lot No: 1K5 Expiry Date: 2022-02-01

(101.623-12/12u)

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 11, 15 and 21 may have tendencies of unspecific amplifications.

Primer mixes 16 and 22 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C\*08 primer mixes.

Primer mixes 6 and 23 have a tendency of giving rise to primer oligomer formation.

Primer mix 42 contains a negative control, which will amplify a 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 products generated by the HGH positive control primer pairs are 200 and 430 base pairs.











**1**HLA-C\*08 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\*08 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-C\*08 alleles | Other amplified HLA Class I alleles |
| **6** | 65 bp  100 bp  270 bp  310 bp | \*08:102  \*08:14, 08:80, 08:103  \*08:06  \*08:23 | \*04:347, 07:06:01:01-07:06:02, 07:18:01:01-07:19, 07:330:02, 07:517, 07:607, 07:613, 07:620-07:621, 07:687, 07:706, 07:721, 07:735, 07:739, 07:760, 07:776N  \*01:02:34, 01:21, 02:42, 02:107, 02:152, 04:140, 04:166:01, 04:220, 05:98, 05:197, 06:05, 07:01:74, 07:02:09, 12:16:01, 12:147, 12:227, 12:279, 15:63, 15:113, 16:80, **B\*15:436,** **B\*67:02**  \*01:140, 06:161, 16:33 |
| **7** | 100 bp  150 bp  230 bp | \*08:07, 08:47, 08:104, 08:188  \*08:41, 08:115, 08:138, 08:182  \*08:87 | \*05:23, 05:62, 05:134, 05:143, 05:151, 07:01:48, 07:02:35, **B\*48:04:02**  **\***03:02:20, 03:87:01, 03:267, 05:27, 05:39, 05:151, 05:184, **B\*15:01:03** |
| **9** | 140 bp  375 bp  505 bp | \*08:88N  \*08:24, 08:75  \*08:10 | \*02:83, 16:90, 06:262, 16:100  \*04:291, 05:79 |
| **10** | 110 bp  140 bp | \*08:09  \*08:17 |  |
| **11** | 185 bp  225 bp  255 bp  280 bp | \*08:128  \*08:09, 08:11, 08:59, 08:113, 08:152  \*08:86  \*08:12 | \*01:159, 03:206, 03:212, 04:84  \*05:04:01-05:04:02, 05:103:01-05:103:02, 05:135, 05:188, 05:207, 05:215, 06:129, 07:68,  07:260:01-07:260:02, 07:302, **B\*15:337, B\*18:83, B\*58:76**  **\***05:16, 05:85, 05:107, 06:129, 07:364, **B\*14:32** |
| **14** | 130 bp  160 bp  280 bp | \*08:90  \*08:18, 08:95  \*08:08:01-08:08:02 | \*03:155, 03:282, 07:413, 07:422, 12:149, **B\*35:252, B\*35:339, B\*39:114, B\*40:346** |
| **17** | 375 bp  430 bp | \*08:05, 08:21, 08:25, 08:137  \*08:28, 08:137, 08:168 | \*05:42w, 05:46  \*05:25, 05:42 |
| **18** | 80 bp  200 bp | \*08:31, 08:185  \*08:26N, 08:92 | \*05:105 |
| **19** | 110 bp  250 bp | \*08:27, 08:29-08:31  \*08:32 | \*05:08, 05:89, 05:106:01-05:106:02, 06:129, 07:447 |
| **22** | 80 bp  155 bp | \*08:41, 08:115, 08:138, 08:182  \*08:33:01 | \*03:314, 05:27, 05:39, 05:151, 05:184, **B\*15:337, B\*44:148**  \*05:18:02-05:18:03, 05:103:01, 05:107, 05:115, 05:134, 05:151, 07:04:01:01-07:04:10, 07:04:12-07:04:18, 07:11-07:12, 07:63, 07:68, 07:101, 07:139, 07:142, 07:181, 07:199:01-07:199:02, 07:260:01-07:260:02, 07:272, 07:302, 07:323-07:324, 07:328-07:329N, 07:336, 07:338, 07:354-07:355, 07:357-07:358, 07:361, 07:364-07:365, 07:378, 07:394-07:395, 07:403, 07:406, 07:420, 07:426, 07:428, 07:459, 07:466-07:467, 07:480, 07:487, 07:501, 07:523, 07:534-07:535, 07:552, 07:562-07:563, 07:569, 07:585-07:586, 07:600:01N-07:600:02N, 07:622, 07:626, 07:651, 07:655-07:656, 07:664, 07:672N, 07:674, 07:693, 07:698, 07:742, 07:751N, **B\*14:32, B\*18:83, B\*44:148, B\*58:76** |
| **23** | 90 bp  140 bp  205 bp  250 bp | \*08:36N, 08:69  \*08:92, 08:95  \*08:70Q  \*08:74, 08:78 | \*03:174, 03:365, 07:229, 07:387, 12:131, 14:39, 16:42, 16:56, **B\*07:243, B\*08:98, B\*35:202, B\*56:57**  **\***03:155, **B\*35:252, B\*39:114**  \*01:125, 03:236, 03:351, 04:106, 07:293, 07:519, 14:96, **B\*18:64, B\*35:183, B\*39:140, B\*40:138, B\*41:59** |
| **24** | 105 bp  150 bp | \*08:56, 08:89N  \*08:37, 08:53, 08:74 | \*02:14:01-02:14:02, 02:107, 02:164, 04:42:01-04:42:02, 04:220, 04:239, 05:43, 06:05, 07:01:74, 07:02:09, 12:16:01, 12:147, 12:195:02, 12:217, 15:23:01-15:23:02, 15:63, 15:138, 15:158, 16:21, 16:80 |
| **25** | 115 bp  225 bp  265 bp  290 bp | \*08:39, 08:165  \*08:09, 08:11, 08:59, 08:113, 08:152  \*08:62:01-08:62:02, 08:82, 08:144:01-08:144:02  \*08:34 | \*05:12, 05:151, 07:487, **A\*29:10:01-29:10:02, B\*18:83, B\*44:148, B\*58:76**  **\***05:04:01-05:04:02, 05:103:01-05:103:02, 05:135, 05:188, 05:207, 05:215, 06:129, 07:68, 07:260:01-07:260:02, 07:302, **B\*15:337, B\*18:83, B\*58:76**  \*03:251, 03:314, 05:05:01-05:05:02, 05:135, 05:147-05:148, **A\*02:425, A\*02:519, A\*29:10:01-29:10:02, A\*68:69, B\*14:32, B\*15:337, B\*18:83, B\*44:148** |
| **27** | 125 bp  265 bp | \*08:19:01-08:19:02, 08:101, 08:143  \*08:55N | \*04:223:01, 05:64:01-05:64:02  \*05:92N |
| **28** | 155 bp  185 bp  290 bp | \*08:53  \*08:01:07, 08:02:07, 08:33:02  \*08:34 | \*03:251, 03:314, 04:120, 05:18:05, 05:148, 05:215 |
| **29** | 185 bp  210 bp | \*08:128  \*08:38, 08:52N | \*01:159, 03:206, 03:212, 04:84 |
| **30** | 65 bp  270 bp  405 bp  470 bp | \*08:99  \*08:110  \*08:28, 08:137, 08:168  \*08:20, 08:40 | \*02:153, 03:383, 06:214  \*04:223:01, 05:25, 05:42, 06:02:52, 07:01:48, 07:02:35, 07:41, **A\*01:01:06, A\*66:01:04**  \*03:171, 03:211:01, 04:144, 05:93, 06:73, 12:109 |
| **37** | 205 bp  265 bp | \*08:127N  \*08:141Q |  |
| **38** | 205 bp  265 bp | \*08:129N  \*08:141Q |  |
| **40** | 125 bp  200 bp | \*08:42  \*08:107 | \*04:229 |

**4**The following HLA-C\*08 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |  |  |
| --- | --- | --- | --- |
| **Alleles** | **Primer mix** | **Alleles** | **Primer mix** |
| C\*08:20, 08:99 | 30 | C\*08:36N, 08:78 | 23 |
| C\*08:24, 08:88N | 9 | C\*08:69, 08:70Q | 23 |
| C\*08:30, 08:32 | 19 |

**5**This lot of the HLA-C\*08 kit cannot separate the C\*08:160 and C\*16:139 alleles. These alleles can be distinguished by the HLA-C low resolution kit.

Abbreviations

‘w’, might be weakly amplified.