Gel Documentation Form and Worksheet

HLA-C\*08 Lot No: 4G7 Expiry Date: 2021-01-01

(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 |





‘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 mix 4 and 16 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C\*08 primer mixes, most pronounced in primer mix 4.

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 more than 95% 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 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 bp100 bp270 bp310 bp | \*08:102\*08:14, 08:80, 08:103\*08:06\*08:23 | \* 07:06:01:01-07:06:01:02, 07:18-07:19, 07:330:02, 07:517, 07:607\*01:02:34, 01:21, 02:42, 02:107, 04:140, 04:166, 04:220, 05:98, 06:05, 07:02:09, 12:16, 12:147, 15:63, 15:113, 16:80, **B\*67:02**\*01:140, 06:161, 16:33 |
|  **7** | 100 bp150 bp230 bp | \*08:07, 08:47, 08:104\*08:41, 08:115, 08:138\*08:87 | \*05:23, 05:62, 05:134, 05:143, 05:151, 07:01:48, 07:02:35, **B\*48:04:02****\***03:87:01, 03:267, 05:27, 05:39, 05:151, **B\*15:01:03** |
|  **9** | 140 bp375 bp 505 bp | \*08:88N\*08:24, 08:75\*08:10 | \*02:83, 16:90, 16:100\*05:79 |
| **10** | 110 bp 140 bp | \*08:09\*08:17 |  |
| **11** | 185 bp225 bp255 bp280 bp | \*08:128\*08:09, 08:11, 08:59, 08:113, 08:152\*08:86\*08:12 | \*03:206, 03:212, 04:84\* 05:04:01-05:04:02, 05:103:01-05:103:02, 05:135, 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 bp160 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 | \*05:42w, 05:46\*05:25, 05:42 |
| **18** | 80 bp 200 bp  | \*08:31\*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\*08:33:01 | \*03:314, 05:27, 05:39, 05:151, **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, 07:11-07:12, 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, **B\*14:32, B\*18:83, B\*44:148, B\*58:76** |
| **23** | 90 bp140 bp205 bp250 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****\***03:155, **B\*35:252, B\*39:114**\*01:125, 03:236, 03:351, 04:106, 07:293, 07:519**, B\*18:64, B\*35:183, B\*40:138** |
| **24** | 105 bp 150 bp | \*08:56, 08:89N\*08:37, 08:53, 08:74 | \*04:179\*02:14:01-02:14:02, 02:107, 04:42:01-04:42:02, 04:220, 04:239, 05:43, 06:05, 07:02:09, 12:16, 12:147, 12:195:02, 12:217, 15:23, 15:63, 15:138, 16:21, 16:80 |
| **25** | 115 bp225 bp 265 bp290 bp  | \*08:39\*08:09, 08:11, 08:59, 08:113, 08:152\*08:62, 08:82, 08:144\*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, 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 bp265 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 bp185 bp 290 bp  | \*08:53\*08:01:07, 08:02:07, 08:33:02\*08:34 | \*03:251, 03:314, 04:120, 05:148 |
| **29** | 185 bp210 bp | \*08:128\*08:38, 08:52N | \*03:206, 03:212, 04:84 |
| **30** | 65 bp270 bp405 bp 470 bp | \*08:99\*08:110\*08:28, 08:137\*08:20, 08:40 | \*04:223:01, 05:25, 05:42, 07:01:48, 07:02:35, 07:41, **A\*01:01:06**\*03:171, 03:211:01, 04:144, 05:93, 06:73, 12:109 |
| **37** | 205 bp265 bp | \*08:127N\*08:141Q |  |
| **38** | 205 bp265 bp | \*08:129N\*08:141Q |  |
| **40** | 125 bp200 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 |

‘w’, might be weakly amplified.