Gel Documentation Form and Worksheet

HLA-B\*57 (101.567-12/12u) Lot No: 1K8 Expiry Date: 2023-09-01

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 Interpretation Table.

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

Primer mix 9 may have tendencies of unspecific amplifications.

Primer mix 15 has a tendency to giving rise to primer oligomer formation.

Primer mix 23 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B\*57 resolution primer mixes.

Primer mix 32 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 product generated by the HGH positive control primer pair is 200 base pairs.









**1**HLA-B\*57 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), release 3.25.0, July 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-B\*57 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-B\*57 alleles | Other amplified HLA Class I alleles |
| **6** | 95 bp  180 bp  205 bp | \*57:04:01-57:04:03, 57:32  \*57:06  \*57:30 | \*44:153 |
| **7** | 105 bp  170 bp  295 bp | \*57:15  \*57:37  \*57:55, 57:94 |  |
| **8** | 90 bp  200 bp  250 bp | \*57:16  \*57:49  \*57:07, 57:93, 57:119 | \*44:153 |
| **11** | 215 bp  250 bp | \*57:09, 57:24, 57:119  \*57:14:01-57:14:02, 57:43 | \*08:181 |
| **14** | 135 bp  195 bp | \*57:17  \*57:10 | **\***44:189, **C\*07:239**  **\***07:219 |
| **15** | 110 bp  145 bp | \*57:29, 57:33  \*57:11 | \*14:61, 15:214, 18:81, 35:250, 39:145, 40:427, 44:311, 51:165  \*14:01:01:01-14:02:08, 14:02:10-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:36, 14:38-14:52, 14:54, 14:57-14:68, 15:510, 18:44:01-18:44:02, 39:79, 50:51, 54:38, 58:02:01-58:02:02, 58:06-58:07, 58:25, 58:38, 58:43, 58:60, 58:104, **C\*01:32:01-01:32:02, C\*06:20, C\*14:82, C\*16:98, C\*16:102, C\*16:110** |
| **16** | 85 bp  160 bp | \*57:12  \*57:18 | \*08:119, 14:24, 35:226, 39:92, 58:64 |
| **17** | 140 bp  210 bp | \*57:13, 57:31  \*57:13, 57:22, 57:27, 57:57, 57:63 | \*07:227, 08:181, 40:30, 40:34, **C\*06:72**  **\***07:227, 55:14, **C\*06:72w** |
| **19** | 90 bp  240 bp | \*57:04:01-57:04:03, 57:41  \*57:13, 57:25, 57:43 | \*44:153, **C\*06:72**  **\***07:227, 40:30, 40:34 |
| **20** | 90 bp  240 bp | \*57:20  \*57:26 | \*08:181, 55:14, **C\*06:72** |
| **21** | 120 bp  150 bp | \*57:33, 57:98Q  \*57:21 | \*35:127, 50:54, 55:100 |
| **22** | 95 bp  140 bp | \*57:34  \*57:40, 57:98Q | \*58:54  \*14:20, 15:461, 44:317 |
| **23** | 75 bp  100 bp  465 bp | \*57:35  \*57:36  \*57:05, 57:67:01 | \*13:02:06, 13:26:01, 13:72, 13:127, 15:16:03, 15:20, 15:85, 15:194, 15:393, 15:407, 35:46, 35:207, 46:01:07, 46:33, 58:36, **C\*01:73** |
| **24** | 230 bp  270 bp | \*57:77  \*57:40 | \*44:36, **A\*03:174, A\*11:65, A\*24:247, C\*01:170, C\*04:83**  **\***15:461, 40:284, 44:317, **C\*07:511, C\*15:121** |

**4**The following HLA-B\*57 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| **Alleles** | **Primer mix** |
| B\*57:15, 57:37, 57:55 | 7 |
| B\*57:25, 57:41 | 19 |

Abbreviations

‘w’, might be weakly amplified.