Gel Documentation Form and Worksheet

HLA-B\*57:01 (101.572-12/12u) Lot No: 4K0 Expiry Date: 2023-10-01

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Test Date: \_\_\_\_\_\_\_\_\_\_\_\_ Review Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sample ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Tested By: \_\_\_\_\_\_\_\_\_\_\_\_\_ Reviewed By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

***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 mix 2 may give rise to a lower yield of HLA-specific PCR product than the other B\*57:01 primer mixes.

Primer mixes 18 and 22 have a tendency of unspecific amplifications.

Primer mix 24 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 pair are 200 and 430 base pairs.





**1**HLA-B alleles listed on the IMGT/HLA web page 2019-07-10, release 3.37.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

**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\*57:01 alleles | Other amplified HLA Class I alleles |
|  **3** | 95 bp 170 bp 215 bp |  | \*57:04:01-57:04:02, 57:32, **44:153**\*57:06, 57:18\*57:27 |
|  **4** | 90 bp105 bp170 bp |  | \*57:20, 57:62\*57:15, 57:29, **14:61, 15:214, 18:81, 35:250, 39:145, 40:427, 44:311, 51:165**\*57:91 |
|  **5** | 90 bp165 bp200 bp 245 bp |  | \*57:16, 57:34, **58:54**\*57:23\*57:46, 57:64\*57:07, 57:26, 57:93, 57:119, **08:181, 44:153, 55:14, C\*06:72** |
|  **6** | 90 bp 205 bp |  | \*57:02:01-57:03:04, 57:07, 57:09, 57:12, 57:17, 57:39, 57:42, 57:46, 57:57, 57:63, 57:66, 57:70, 57:80, 57:84, 57:94, 57:96, 57:101, 57:124, **08:181, 40:30, 40:34**\*57:08, 57:65, **15:403** |
|  **7** | 100 bp 140 bp 185 bp 215 bp 250 bp |  | \*57:53\*57:13, 57:31, **07:227,** **08:181, 40:30, 40:34, C\*06:72**\*57:50\*57:09, 57:24, 57:119, **08:181**\*57:13, 57:14:01-57:14:02, 57:25, **07:227, 40:30, 40:34** |
|  **8** | 160 bp210 bp |  | \*57:87\*57:10, 57:39, 57:51, 57:73, **07:219, 15:446, 58:41** |
|  **9** | 110 bp 150 bp |  | \*57:33, **44:450**\*57:21, 57:40, 57:74, **14:20, 15:461, 27:188, 35:127, 44:317, 50:54, 51:186, 53:41, 55:100** |
| **10** | 205 bp 240 bp |  | \*57:13, 57:22, 57:57, 57:63, **07:227, 55:14, C\*06:72w**\*57:43 |
| **12** | 75 bp 140 bp |  | \*57:35\*57:08, 57:60, **15:87, 15:403** |
| **13** | 105 bp 135 bp 200 bp |  | \*57:45, 57:51, 57:69, 57:71, 57:88, **58:111, A\*02:285, A\*02:799**\*57:58, 57:80, 57:90, **07:219, 58:12,** **A\*02:42:01-02:42:02**, **A\*02:310, A\*02:597**\*57:49 |
| **14** | 115 bp135 bp205 bp |  | \*57:54, 57:96, **15:33, 15:248, 49:22, 51:126, C\*03:87:01-03:87:02, C\*03:414, C\*05:27, C\*05:39, C\*05:184, C\*08:115, C\*08:182**\*57:47\*57:77, **44:36,** **C\*03:232** |
| **15** | 145 bp 185 bp 295 bp |  | \*57:56, 57:78, **15:340, 35:300, 40:218, 44:307, 45:21, 46:28, 51:58, 52:82, 58:83**\*57:48, **A\*23:72, A\*33:12**\*57:55, 57:94 |
| **17** | 90 bp180 bp |  | \*57:04:01-57:04:03, 57:41, **44:153, C\*06:72**\*57:68 |
| **18** | 170 bp275 bp300 bp |  | \*57:37, 57:79N\*57:81, **44:13, 44:67, 51:170** \*57:86, **53:25** |
| **19** | 100 bp165 bp215 bp |  | \*57:76\*57:92\*57:72 |
| **20** | 240 bp340 bp |  | \*57:44, **18:167,** **44:249**\*57:75, **35:374, 40:327?, 52:81** |
| **21** | 100 bp135 bp485 bp |  | \*57:36\*57:38\*57:05 |

Abbreviations

‘w’, might be weakly amplified.

‘?’, nucleotide sequence of the primer matching region not known.

Change in revision R01 compared to R00:

1. Primer mix 22 has a tendency for unspecific amplification. A footnote has been added in the Specificity Table.