Gel Documentation Form and Worksheet

HLA-B\*67 (101.550-06/06u) Lot: 3L1 Expiry Date: 2024-05-01

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 1 and 5 may give rise to a lower yield of HLA-specific PCR product than the other B\*67 primer mixes.

Primer mixes 3 and 8 have a tendency to giving rise to primer oligomer formation, most pronounced in primer mix 3

In primer mix 3 the positive control band may be weaker than for other HLA-B\*67 primer mixes.

Primer mix 7 may have tendency of unspecific amplification.

Primer mix 8 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\*67 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 3.35.0, January 2019.

**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\*67 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| **Primer Mix** | **Size of spec. PCR product** | **Amplified HLA-B\*67 alleles** | **Other amplified HLA-B alleles** |
| **7** | 85 bp  165 bp | \*67:04  \*67:05 | \*07:94, 08:106, 40:115, 55:99, **C\*01:166, C\*03:124, C\*07:262, C\*07:417, C\*07:475, C\*08:153, C\*12:95**  \*15:20, 15:228, 15:305, 15:435, 27:197, 35:01:01:01-35:01:27, 35:01:29-35:01:46, 35:01:48-35:30:01:02, 35:32:01-35:32:02, 35:33-35:34, 35:36-35:42:02, 35:45, 35:47-35:56, 35:58-35:59:02, 35:61:01-35:72, 35:74-35:78, 35:80-35:86, 35:88-35:134N, 35:136-35:184, 35:186-35:208:01, 35:209-35:278, 35:280-35:358, 35:360-35:466, 35:468-35:470, 37:80, 48:02:01-48:02:03, 49:66, 51:01:01:01-51:01:55, 51:01:57-51:24:05, 51:26-51:41N, 51:43-51:46, 51:48-51:156, 51:158:01-51:163, 51:165-51:219, 51:221-51:236, 51:238-51:294, 51:296-51:299, 51:301-51:306N, 51:308-51:310, 52:01:01:01-52:06:03, 52:08-52:95, 53:01:01:01-53:58, 56:05:01-56:05:02, 56:21, 56:36, 58:01:01:01-58:01:21, 58:01:23-58:02:02, 58:04-58:10N, 58:12-58:19, 58:21-58:29, 58:31N-58:104, 58:107-58:121, 78:01:01:01-78:10, 81:03 |

**4**The following HLA-B\*67 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| **Alleles** | **Primer mix** |
| B\*67:04, 67:05 | 7 |

‘w’, may be weakly amplified.