Gel Documentation Form and Worksheet

HLA-B\*14 (101.524-12/12u) Lot No: 7G2 Expiry Date: 2021-03-01

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 10 may give rise to a lower yield of HLA-specific PCR product than the other B\*14 primer mixes.

Primer mix 4, 13 and 14 may have tendencies of unspecific amplifications.

Primer mix 22 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 pair.









**1**HLA-B\*14 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 3.27.0, January 2017.

**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\*14 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-B\*14 alleles | Other amplified HLA Class I alleles |
| **4** | 85 bp  270 bp | \*14:03  \*14:20 | \*07:218, 07:220, 18:13, 18:30, 51:29, 51:82, 51:217, 52:24, **C\*01:30, C\*08:51, C\*08:114, C\*14:76** |
| **5** | 135 bp  220 bp | \*14:07N  \*14:04 | \*39:40:01N-39:40:02N |
| **6** | 100 bp  175 bp  530 bp | \*14:05, 14:29  \*14:17  \*14:29 | \*07:115, 07:246, 08:69, 38:19, 39:03:01:01-39:03:01:02, 39:24:01-39:24:02, 39:37, 39:76, 39:120, 40:314, 41:18, 42:06, 42:20, 48:07, **C\*08:08:01-08:08:02** |
| **9** | 160 bp  280 bp | \*14:09  \*14:32 | **C\*05:16, C\*05:85, C\*05:107, C\*06:129, C\*07:364, C\*08:12** |
| **10** | 110 bp  180 bp | \*14:29  \*14:11, 14:28 | \*08:01:24, 15:189, 35:03:17, 35:26, 38:33, 39:04, 49:26 |
| **15** | 100 bp  270 bp | \*14:15  \*14:10 | \*55:77  \*18:22, 18:69, 18:105, 35:21, 35:24:01-35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 35:190, 35:233, 35:287, 37:04:01-37:04:02, 40:28, 44:190, 44:203, 44:275, 51:04, 51:46, 51:56:01-51:56:03, 51:139, 51:227, 53:02, 53:06, 53:28, 57:14:01-57:14:02, 58:09, 58:76, **C\*03:384, C\*15:39, C\*15:130** |
| **16** | 90 bp  175 bp  280 bp | \*14:23  \*14:16  \*14:32 | **\***07:239, **C\*01:101, C\*01:113, C\*15:55**  **C\*05:16, C\*05:85, C\*05:107, C\*06:129, C\*07:364, C\*08:12** |

**4**The B\*14:08:01-14:08:02 and the B\*39:43 alleles will give rise to identical amplification patterns with the HLA-B\*14 subtyping kit. These alleles can be distinguished by the HLA-B low resolution kit and/or the HLA-B\*39 subtyping kit.

**5**The following HLA-B\*14 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| **Alleles** | **Primer mix** |
| B\*14:16, 14:23 | 16 |

‘w’, might be weakly amplified.