Gel Documentation Form and Worksheet

HLA-B\*42 (101.543-06/06u) Lot No: 3L3 Expiry Date: 2024-07-01

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 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, 3 and 12 may give rise to a lower yield of HLA-specific PCR product than the other B\*42 primer mixes.

Primer mix 16 contains a negative control, which will amplify the 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\*42 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 3.34.0, October 2018.

**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\*42 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-B\*42 alleles | Other amplified HLA Class I alleles |
| **11** | 115 bp  180 bp | \*42:19  \*42:10, 42:17 | \*07:388, 08:20:01-08:20:02, 08:53:01-08:53:02, 15:516  \*08:49, 08:71, 15:516, 27:83, 41:24, 44:342, 53:15 |
| **14** | 195 bp  290 bp | \*42:15, 42:18  \*42:13 | \*07:11, 07:57, 07:75:01:01-07:75:01:02, 07:160, 07:240, 07:253, 07:340, 08:16-08:17, 08:47, 08:123, 08:145,15:530, 18:49, 18:79, 18:108, 18:132, 18:142, 37:05, 39:20, 39:124, **C\*01:59, C\*01:118, C\*01:157, C\*06:82, C\*06:210, C\*07:49, C\*07:124, C\*07:155, C\*07:210, C\*07:238, C\*07:247, C\*07:403**  \*08:49, 08:60, 08:76, 08:129, 08:181, 41:48, 44:342, 53:15 |
| **15** | 165 bp  230 bp | \*42:25  \*42:14 | \*13:61  \*08:116, 41:06, 41:15, 52:92 |

**4**The following HLA-B\*42 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| **Alleles** | **Primer mix** |
| B\*42:14, 42:25 | 15 |

**5**The following alleles give rise to identical amplification patterns with the HLA-B\*42 high resolution kit. These alleles can be distinguished by the HLA-B low resolution and/or the respective kits.

|  |
| --- |
| Alleles |
| B\*42:05:01-42:05:02, 07:349 |
| B\*42:07, 42:26, 08:94, 08:226 |
| B\*42:19, 07:388 |