Gel Documentation Form and Worksheet

HLA-A\*74 (101.433-06/06u) Lot No: 9H9 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 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 9 may give rise to a lower yield of HLA-specific PCR product than the other A\*74 primer mixes.

Primer mix 16 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-A\*74 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 3.23.0, January 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-A\*74 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-A\*74 alleles | Other amplified HLA-A alleles |
| **5** | 105 bp  230 bp | \*74:32N  \*74:05, 74:35 | \*33:80N |
| **8** | 115 bp  160 bp | \*74:08  \*74:16:01-74:16:02 | \*31:138 |
| **10** | 125 bp  225 bp | \*74:17  \*74:09 | \*03:27, 29:16, 32:75, 33:81, 33:122 |
| **11** | 85 bp  200 bp | \*74:14N  \*74:10, 74:30 | \*29:66, 32:62, **C\*04:01:51, C\*06:02:15, C\*07:02:76** |
| **13** | 125 bp  215 bp | \*74:17  \*74:12N | \*03:27, 29:16, 32:75, 33:81, 33:122 |
| **15** | 110 bp  185 bp | \*74:15 | \*29:39 |

**4**The following HLA-A\*74 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| **Alleles** | **Primer mix** |
| A\*74:08, 74:16:01 | 8 |

Abbreviations

‘?’, nucleotide sequence information not available for the primer matching sequence.

‘w’, may be weakly amplified.