Gel Documentation Form and Worksheet

HLA-A\*30 (101.429-12/12u) Lot No: 2K3 Expiry Date: 2023-09-01

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

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

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

|  |
| --- |
| PHOTO DOCUMENT |

*Interpretation:\_\_\_\_\_\_\_\_\_\_\_ Failed lanes*: \_\_\_\_\_\_\_\_\_\_\_\_ *Comments:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

**Gel Picture**





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 4, 12, 14 and 16 may give rise to unspecific amplifications.

Primer mix 3 may give rise to a lower yield of HLA-specific PCR product than the other A\*30 primer mixes.

Primer mixes 7, 24 and 25 may have a tendency of giving rise to primer oligomer formation.

In primer mix 19, the positive control band may be weaker than for other HLA-A\*30 primer pairs.

Primer mix 32 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\*30 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 3.26.0, October 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\*30 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-A\*30 alleles | Other amplified Class I alleles |
|  **5** | 150 bp 245 bp | \*30:04:01-30:04:02, 30:06, 30:17, 30:29, 30:46, 30:77, 30:90, 30:99, 30:103, 30:105, 30:117, 30:139, 30:150 \*30:19 | \*02:52, 03:82, 24:66, 24:308, 24:333, 68:06 |
|  **6** | 80 bp 185 bp270 bp | \*30:06\*30:07\*30:51, 30:106 | \*02:121, 02:425, 02:517, 03:154:01, 23:47, 24:234, 24:339, 24:347:02, 29:06, 31:51, 33:168, 68:14, 68:158, **C\*03:125w, C\*03:176w** |
|  **7** | 90 bp175 bp | \*30:28, 30:131\*30:08:01-30:08:02, 30:150 | \*26:19 |
| **14** | 210 bp270 bp | \*30:13, 30:16, 30:44, 30:46\*30:51, 30:106 |  \*02:121, 02:425, 02:517, 03:154:01, 23:47, 24:234, 24:339, 24:347:02, 29:06, 31:51, 33:168, 68:14, 68:158, **C\*03:125w, C\*03:176w** |
| **16** | 235 bp265 bp | \*30:95\*30:15, 30:33 | \*36:02, 36:04\*11:268 |
| **18** | 130 bp 210 bp | \*30:32\*30:20, 30:71 |  |
| **19** | 125 bp200 bp235 bp | \*30:70N\*30:31\*30:77 | \*03:45 |
| **20** | 210 bp 275 bp | \*30:23\*30:34 | \*03:04:02-03:04:03, 11:153:01 |
| **21** | 150 bp 185 bp | \*30:02:12, 30:30, 30:100\*30:24 |  |
| **22** | 180 bp 215 bp | \*30:36, 30:73N\*30:27N | \*03:323N |
| **24** | 105 bp160 bp210 bp | \*30:78N\*30:22\*30:25, 30:57, 30:88, 30:90 | \*01:02, 01:20, 01:190 |
| **25** | 160 bp235 bp | \*30:40, 30:76N\*30:95 | \*36:02 |
| **26** | 80 bp190 bp300 bp | \*30:42\*30:121N\*30:81 |  |
| **27** | 145 bp195 bp465 bp | \*30:56\*30:45\*30:132N | \*11:166\*01:04:01:01N-01:04:01:02N, 03:21N, 11:21N, 23:07N, 24:11N |
| **29** | 130 bp190 bp | \*30:59N, 30:61, 30:74 \*30:73N, 30:121N | \*01:57N, 01:88:02-01:88:03, 01:236, 02:156, 02:338, 03:17:01, 03:171, 11:119:01-11:119:02, 11:209, 24:92, 68:103:01-68:103:02 |
| **30** | 80 bp155 bp | \*30:37\*30:123N |  |

**4**The following HLA-A\*30 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| Alleles | Primer mix |
| A\*30:42, 30:81 | 26 |
| A\*30:56, 30:132N | 27 |

Abbreviations

’w’, might be weakly amplified.