Gel Documentation Form and Worksheet

HLA-A\*30 (101.429-12/12u) Lot No: 1H7 Expiry Date: 2021-05-01

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 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 and 24 may have a tendency of giving rise to primer oligomer formation.

Primer mix 32 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 pairs.

Changes in revision R01 compared to R00:

1. Primer mix 27 amplifies the A\*01:04:01:02N allele. This has been corrected in the Specificity and Interpretation Tables.





**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  \*30:19 | \*02:52, 03:82, 24:66, 24:308, 24:333, 68:06 |
| **6** | 80 bp  185 bp  270 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, 68:14, 68:158, **C\*03:125w, C\*03:176w** |
| **7** | 90 bp  200 bp | \*30:28, 30:131  \*30:02:14, 30:08 | \*02:185w, 02:601w |
| **14** | 210 bp  270 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, 68:14, 68:158, **C\*03:125w, C\*03:176w** |
| **16** | 235 bp  265 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 bp  200 bp  235 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 |  |
| **24** | 105 bp  160 bp  210 bp | \*30:78N  \*30:22  \*30:25, 30:57, 30:88, 30:90 | \*01:02, 01:20, 01:190 |
| **25** | 160 bp  235 bp | \*30:40, 30:76N  \*30:95 | \*36:02, 36:04 |
| **26** | 80 bp  190 bp  300 bp | \*30:42  \*30:121N  \*30:81 |  |
| **27** | 145 bp  195 bp  465 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 bp  190 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 bp  155 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 |

’w’, might be weakly amplified.