Gel Documentation Form and Worksheet

HLA-A\*30 (101.429-12/12u) Lot No: 4L3 Expiry Date: 2024-07-01

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 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 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-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 | \*30:04:01:01-30:04:03, 30:06, 30:17, 30:29, 30:46, 30:77, 30:90, 30:99, 30:103, 30:105, 30:117, 30:139, 30:150, 30:155  \*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, 02:850, 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 bp  175 bp | \*30:28, 30:131  \*30:08:01-30:08:02, 30:150 | \*26:19 |
| **14** | 210 bp  270 bp | \*30:13, 30:16, 30:44, 30:46  \*30:51, 30:106 | \*02:121, 02:425, 02:517, 02:850, 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 bp  265 bp | \*30:95  \*30:15, 30:33 | \*26:187, 36:02  \*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 | \*30:30, 30:100  \*30:24 |  |
| **22** | 180 bp  215 bp | \*30:36, 30:73N  \*30:27N | \*03:323N |
| **24** | 105 bp  160 bp  210 bp | \*30:78N  \*30:22  \*30:25, 30:57, 30:88, 30:90 | \*01:02:01-01:02:02, 01:20, 01:190 |
| **25** | 160 bp  235 bp | \*30:40, 30:76N  \*30:95 | \*26:187, 36:02 |
| **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, 03:381N, 11:119:01-11:119:02, 11:209, 24:92, 24:458, 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 |

Abbreviations

w: might be weakly amplified