Gel Documentation Form and Worksheet

HLA-A\*29 (101.428-12/12u) Lot No: 5L0 Expiry Date: 2024-08-01

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 9, 12, 13, 16, 18 and 20 may have tendencies of unspecific amplifications.

Primer mixes 10 and 19 have a tendency giving rise to primer oligomer formation.

Primer mix 13 may give rise to a lower yield of HLA-specific PCR product than the other A\*29 primer mixes.

Primer mix 31 contains a negative control, which will amplify more 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\*29 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 3.29.0, August 2017.

**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\*29 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-A\*29 alleles | Other amplified HLA-A alleles |
| **4** | 110 bp  165 bp | \*29:35, 29:51, 29:69, 29:73  \*29:03, 29:33 | \*02:24:02, 02:507, 32:109  \*01:01:114, 23:03:01, 24:21:03, 24:208:01, 31:05, 32:13, 33:10 |
| **5** | 130 bp  185 bp | \*29:04  \*29:23 |  |
| **8** | 85 bp  160 bp | \*29:07, 29:49  \*29:46 | \*01:301Q, 03:347, 11:139, 23:53, 23:70, 24:17, 24:41, 24:208:01-24:208:02, 24:488  \*32:139 |
| **9** | 80 bp  170 bp | \*29:16, 29:139  \*29:08N | \*01:157, 03:27, 11:233 |
| **10** | 90 bp  165 bp  215 bp | \*29:09, 29:33, 29:51, 29:73, 29:144  \*29:17, 29:43  \*29:54 | \*01:01:114, 02:24:02, 02:507, 03:01:18, 11:01:28, 11:01:77, 24:21:03, 24:208:01, 31:24, 32:33:01, 32:109, 33:34, 33:164 |
| **11** | 110 bp  190 bp | \*29:14, 29:35  \*29:10:01-29:10:02, 29:23 | **C\*07:04:13, C\*08:01:15** |
| **12** | 80 bp  145 bp | \*29:01:11, 29:02:04, 29:18, 29:48  \*29:78N | \*02:01:165, 03:01:39, 32:01:01:01-32:01:07, 32:01:09-32:01:17, 32:01:19-32:01:29, 32:01:31-32:03:01:02, 32:05-32:55:02, 32:57-32:69, 32:71, 32:73-32:107, 32:109-32:112N, 32:114-32:140, 32:142, 68:01:28, 68:01:36, 74:01:01:01-74:01:05, 74:01:07-74:13, 74:15-74:37 |
| **13** | 90 bp  165 bp  260 bp | \*29:11, 29:51, 29:73  \*29:12, 29:92  \*29:55 | \*02:24:02, 02:507, 32:109  \*31:16, 33:58 |
| **16** | 95 bp  160 bp  190 bp | \*29:15  \*29:21, 29:43  \*29:53 | \*02:221, 23:41, 30:162, 31:78 |
| **17** | 100 bp  130 bp  190 bp  215 bp | \*29:51, 29:69, 29:73  \*29:24, 29:40  \*29:27, 29:53  \*29:54 | \*02:24:02, 02:507, 32:109 |
| **18** | 225 bp  260 bp | \*29:37, 29:56  \*29:36 | \*32:07, 33:119 |
| **19** | 160 bp  260 bp  505 bp | \*29:25  \*29:55  \*29:26 |  |
| **22** | 115 bp  260 bp | \*29:29  \*29:13 | \*01:148, 03:327, 11:128, 26:85, 33:139, 66:41, 68:58:01-68:58:02  \*24:82, 31:07-31:08, 31:10, 32:42 |
| **23** | 75 bp  510 bp | \*29:32  \*29:81, 29:133:01:01-29:133:01:02 | \*02:24:02, 02:65, 02:152, 02:507, 02:829, 23:03:01, 23:83, 24:21:03, 31:01:02:01-31:01:29, 31:01:31-31:02:02, 31:05, 31:07-31:61, 31:63-31:66, 31:70-31:119, 31:121-31:178, 31:180, 32:01:01:01-32:01:06, 32:01:08-32:01:11, 32:01:13-32:01:27, 32:01:29-32:03:01:02, 32:05-32:27N, 32:29, 32:31, 32:33:01, 32:34-32:47, 32:49-32:65, 32:67-32:93, 32:95-32:100, 32:102-32:118, 32:120-32:142, 33:01:01:01-33:01:04, 33:01:06-33:01:14, 33:03:01:01-33:03:18, 33:03:20-33:03:23, 33:03:25-33:03:26, 33:03:28-33:17, 33:20-33:31, 33:33-33:37, 33:39-33:151, 33:153-33:158, 33:160-33:201, 74:01:01:01-74:38, **B\*15:17:03** |
| **29** | 105 bp  475 bp | \*29:19-29:20, 29:34  \*29:82 | \*01:69:03 |

**4**The following HLA-A\*29 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| Alleles | Primer mix |
| A\*29:07, 29:46 | 8 |
| A\*29:08N, 29:139 | 9 |
| A\*29:11, 29:92 | 13 |
| A\*29:17, 29:144 | 10 |
| A\*29:20, 29:82 | 29 |

Abbreviations

w: may be weakly amplified.