Gel Documentation Form and Worksheet

HLA-A\*32 (101.431-12/12u) Lot No: 5K1 Expiry Date: 2023-11-01

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

Sample ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Tested By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 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 4 and 20 may have tendencies of unspecific amplifications.

Primer mixes 8 and 10 may give rise to a lower yield of HLA-specific PCR product than the other A\*32 primer mixes.

Primer mix 30 has a tendency to give rise to primer oligomer formation.

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 product generated by the HGH positive control primer pair is 200 base pairs.





**1**HLA-A\*32 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 3.25.0, July 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\*32 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-A\*32 alleles | Other amplified HLA-A alleles |
|  **2** | 430 bp520 bp | \*32:01:01:01-32:01:06, 32:01:08-32:01:11, 32:01:13-32:02, 32:05-32:27N, 32:29-32:30:01, 32:31-32:33:01, 32:34-32:65, 32:67-32:77, 32:79-32:83, 32:85-32:93, 32:95-32:100, 32:102-32:131 \*32:04, 32:52 | \*02:829, 29:13 |
|  **6** | 120 bp 520 bp | \*32:20\*32:04, 32:52  | \*03:152, 03:219, 24:18, 24:204, 24:213 |
|  **8** | 165 bp 215 bp | \*32:19N\*32:07  | \*01:02w, 01:20w, 03:72, 11:88, 23:09w, 23:51, 24:24, 24:67, 24:145, 24:156, 24:191, 24:290, 24:392, 26:16, 29:37, 29:56, 30:01:01:01-30:01:12, 30:01:14-30:04:02, 30:06, 30:09-30:20, 30:23-30:30, 30:32-30:54, 30:56-30:59N, 30:61-30:78N, 30:80-30:132N, 30:134-30:149, 30:151, 30:153-30:158N, 33:119, 68:45, 68:117 |
| **11** | 120 bp 165 bp | \*32:20\*32:09 |  |
| **12** | 130 bp 195 bp | \*32:10, 32:118 \*32:16 | \*02:507, 29:28, 29:79, 31:30, 31:97, 33:94, 33:155, 74:29, **B\*07:02:40, C\*02:02:15, C\*04:175** |
| **13** | 155 bp 200 bp | \*32:11Q\*32:15  | \*01:51, 02:55, 02:644, 02:741, 02:815, 03:24, 25:03, 25:30, 26:20, 34:08, 68:71 |
| **15** | 165 bp 220 bp | \*32:13\*32:18 | \*23:03:01, 24:21:03, 24:208:01, 29:03, 29:33, 31:05, 33:10 |
| **17** | 75 bp 200 bp | \*32:21\*32:44  | \*29:62, 29:122, 31:45, 33:16\*33:75 |
| **18** | 130 bp185 bp | \*32:24\*32:60 |  |
| **19** | 110 bp185 bp | \*32:25, 32:45N\*32:60 |  |
| **20** | 125 bp 220 bp | \*32:23\*32:54  | \*33:46\*02:19, 02:294, 34:01:01:01, 34:01:02, 34:05?, 66:08, 68:206 |
| **22** | 175 bp 230 bp | \*32:56N\*32:27N |  |
| **23** | 80 bp 225 bp | \*32:28, 32:66\*32:53  | \*02:41, 02:80, 02:117, 02:289:01, 02:304, 02:454, 02:872, 23:45, 24:62, 26:10, 31:67-31:68, 33:32:01\*02:480, 33:39, 68:176 |
| **28** | 95 bp270 bp | \*32:69\*32:112N | \*02:748N, 03:91N |
| **30** | 140 bp400 bp | \*32:117N\*32:101Q |  |

**4**The following HLA-A\*32 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| Alleles | Primer mix |
| A\*32:10, 32:16, 32:118 | 12 |
| A\*32:21, 32:44 | 17 |
| A\*32:23, 32:54 | 20 |
| A\*32:69, 32:112N | 28 |

Abbreviations

‘w’, might be weakly amplified.

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