Gel Documentation Form and Worksheet

HLA-A\*26 (101.424-12/12u) Lot No: 6G1 Expiry Date: 2022-09-01

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 1 and 39 have a tendency to giving rise to primer oligomer formation.

Primer mixes 4, 12, 20, 22, 26 and 33 may have tendencies of unspecific amplifications.

Primer mixes 7 and 25 may give rise to a lower yield of HLA-specific PCR product than the other A\*26 primer mixes.

In primer mix 4 the positive control band may be weaker than for other HLA-A\*26 primer mixes.

Primer mix 48 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 pair.



 





**1**HLA-A\*26 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\*26 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-A\*26 alleles | Other amplified HLA-A alleles |
| **9** | 145 bp190 bp | \*26:12, 26:18\*26:29, 26:49 | \*02:309, 02:454, 25:28, 25:30, 31:03-31:04, 31:123, 34:06, 66:06, 74:01:03\*01:01:56, 25:36, 66:10 |
| **10** | 85 bp 260 bp | \*26:07:01-26:07:02\*26:20 | \*01:83:01-01:83:02, 02:146\*01:01:13, 02:146w, 02:644w |
| **12** | 140 bp 240 bp | \*26:14, 26:18, 26:28, 26:52, 26:73, 26:112, 26:146\*26:16 | \*03:01:19, 03:103:02, 25:09, 31:03-31:04, 31:123, 34:03, 34:06, 34:17, 66:22, 74:01:03\*01:02, 01:20, 01:188, 01:190, 24:04, 24:109, 24:129, 29:37, 29:56, 30:57, 30:90 |
| **13** | 110 bp255 bp | \*26:45, 26:106\*26:17 | \*01:184 |
| **17** | 105 bp175 bp | \*26:74\*26:09, 26:91 | \*02:309, 02:454, 03:01:19, 03:103:02, 25:06, 31:03-31:04, 31:123, 34:01:01:01-34:09, 34:12-34:17, 74:01:03 |
| **18** | 125 bp205 bp | \*26:31\*26:21, 26:115 | \*01:60, **C\*06:71, C\*07:581** |
| **19** | 190 bp 245 bp | \*26:40\*26:22 | \*01:20w, 01:66w, 01:130w, 02:38, 02:101:01, 02:447, 02:543, 66:09 |
| **20**  | 60 bp 210 bp | \*26:27\*26:23 | \*01:243w\*01:182w, 11:185 |
| **21** | 115 bp135 bp205 bp | \*26:24, 26:99\*26:82\*26:41 | \*02:140, 02:241, 02:684, 31:48, 33:15, 33:31 |
| **22**  | 100 bp170 bp220 bp | \*26:25N\*26:98\*26:38 | **C\*04:199, C\*06:75** |
| **23** | 130 bp165 bp | \*26:56, 26:82\*26:26 |  |
| **27** | 125 bp 150 bp275 bp | \*26:76\*26:145N\*26:35 |  |
| **28** | 90 bp265 bp | \*26:03:01, 26:06, 26:21, 26:36, 26:78, 26:92, 26:111, 26:146\*26:116 | \*01:104, 01:134, 01:229, 02:346, 02:427, 11:06, 25:11, 80:01:01:01w |
| **29** | 330 bp475 bp | \*26:37\*26:104 | \*24:74:02 |
| **30** | 120 bp235 bp | \*26:15, 26:29, 26:56, 26:99\*26:33 | \*02:140, 11:91:01, 31:48, 33:15, **B\*35:108:01, B\*44:248, B\*53:26, C\*12:91** |
| **32** | 90 bp155 bp205 bp | \*26:61\*26:43:01\*26:21, 26:115 | \*02:309, 02:454, 03:01:19, 03:103:02, 25:19:01-25:19:02, 25:30, 31:03-31:04, 31:123, 34:02:01, 34:02:03-34:04, 34:06-34:09, 34:13, 34:15, 66:06, 74:01:03 |
| **33**  | 105 bp170 bp200 bp  | \*26:46\*26:98\*26:53 |  |
| **34** | 140 bp190 bp | \*26:47, 26:127N\*26:29, 26:49 | \*25:08, 66:18\*01:01:56, 25:36, 66:10 |
| **35** | 115 bp 245 bp | \*26:48, 26:69, 26:114\*26:59 | \*34:01:01:01-34:01:02, 34:05, 34:11-34:12, 34:14, 34:16-34:17, **C\*04:49, C\*07:262, C\*07:417, C\*07:475** |
| **36** | 125 bp150 bp215 bp | \*26:54\*26:127N\*26:55 | \*02:454, 25:05 |
| **37** | 245 bp 415 bp  | \*26:50\*26:64, 26:66 | \*68:89 |
| **38** | 90 bp 150 bp190 bp  | \*26:75\*26:145N\*26:51 | \*01:205, 11:34\*01:168, 11:262 |
| **39** | 220 bp410 bp | \*26:63\*26:62, 26:64, 26:72 | \*24:181\*02:609, 23:09, 24:129, 68:89 |
| **40** | 90 bp150 bp255 bp | \*26:57\*26:42\*26:57 | \*68:86, **B\*39:104**\*68:86, **B\*39:104** |
| **42** | 425 bp460 bp | \*26:66\*26:58 | \*02:81, 02:87, 02:112, 02:124, 02:129, 02:136, 02:571, 23:01:01:01-23:68, 23:70-23:88, 24:02:01:01-24:02:32, 24:02:34-24:03:04, 24:05:01-24:11N, 24:13:01-24:15, 24:17-24:18, 24:20:01:01-24:25, 24:27, 24:29-24:43, 24:45N-24:64, 24:66-24:88, 24:90:01N-24:99, 24:101-24:108, 24:110-24:128, 24:130-24:183N, 24:185N-24:210, 24:212-24:213, 24:215-24:239, 24:242-24:289, 24:291-24:293, 24:295-24:372, 24:374-24:400, 25:01:01:01-25:46, 68:36, **B\*27:163** |
| **43** | 90 bp175 bp | \*26:107N\*26:103 | \*25:18 |
| **44** | 105 bp235 bp | \*26:68\*26:130 | \*25:27:01, 66:14 |
| **45** | 155 bp275 bp | \*26:42, 26:71N\*26:104 | \*11:208N, 68:94N, **B\*35:173:01N** |

**4**The following HLA-A\*26 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |  |  |
| --- | --- | --- | --- |
| Alleles | Primer mix | Alleles | Primer mix |
| A\*26:17, 26:106 | 13 | A\*26:46, 26:53 | 33 |
| A\*26:23, 26:27 | 20 | A\*26:54-26:55 | 36 |
| A\*26:24, 26:41 | 21 | A\*26:59, 26:69 | 35 |
| A\*26:25N, 26:38 | 22 | A\*26:62-26:63 | 39 |
| A\*26:36, 26:116 | 28 | A\*26:68, 26:130 | 44 |
| A\*26:43:01, 26:61 | 32 | A\*26:103, 26:107N | 43 |

‘w’, may be weakly amplified

Changes in revision R01 compared to R00:

1. The expiration date has been altered due to extension of shelf-life.