Gel Documentation Form and Worksheet

HLA-A\*66 (101.427-06/06u) Lot No: 1K4 Expiry Date: 2023-09-01

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sample ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DNA Conc.(ng/ul):\_\_\_\_\_\_\_\_\_

Test Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tested By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Review Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reviewed By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Interpretation:\_\_\_\_\_\_\_\_\_\_\_ Failed lanes: \_\_\_\_\_\_\_\_\_\_\_\_\_ Comments:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

**Gel Picture**

|  |
| --- |
| PHOTO DOCUMENT |



Abrreviations

‘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 mix 1 may give rise to a PCR fragment approx. 500 bp in size. This band should be disregarded in the interpretation of HLA-A\*66 subtypings.

In primer mix 9 the positive control band may be weaker than for other HLA-A\*66 primer mixes.

Primer mix 14 may give rise to a lower yield of HLA-specific PCR product than the other A\*66 primer mixes.

Primer mix 16 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 products generated by the HGH positive control primer pair are 200 and 430 base pairs.





 **1**HLA-A\*66 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\*66 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| **Primer Mix** | **Size of spec. PCR product** | **Amplified HLA-A\*66 alleles** | **Other amplified HLA-A alleles** |
| **5** | 190 bp225 bp | \*66:27N | \*01:134, 01:229, 02:01:09, 02:05:05, 02:06:07, 02:07:12, 02:50, 02:76:02, 02:122, 02:243:02-02:243:03, 02:528:02, 02:591:01, 03:09, 03:89:02, 03:108, 03:172, 03:198, 03:330N, 11:06, 11:18, 11:312, 24:28, 24:89, 24:379, 26:03:01, 26:06, 26:21, 26:30, 26:78, 26:92, 26:111, 26:177, 29:19, 29:48, 33:24, 68:05, 68:15, 68:20, 74:06, 74:21 \*03:91N, 11:215N, 32:112N, 33:154N |
| **9** | 155 bp235 bp | \*66:06, 66:33 \*66:14 | \*02:309, 02:454, 03:01:19, 03:103:02, 25:19:01-25:19:02, 25:30, 26:43:01-26:43:02, 26:112, 31:03-31:04, 31:123, 34:02:01:01-34:04, 34:06-34:09, 34:13, 34:15, 34:20-34:22, 74:01:03\*25:27:01, 26:130 |
| **11** | 190 bp 235 bp | \*66:04, 66:07, 66:10\*66:14 | \*01:01:56, 25:36, 26:29, 26:49\*25:27:01, 26:130 |
| **12** | 95 bp220 bp | \*66:17\*66:08 | \*02:453, 02:557, 02:690, 33:151\*02:294, 32:54, 34:01:01?-34:01:02?, 34:05?, 68:206 |
| **13** | 145 bp305 bp 440 bp | \*66:19, 66:22, 66:26Q\*66:13\*66:11 | \*01:01:56, 03:01:19, 03:103:02, 25:09, 26:14, 26:18, 26:28, 26:73, 26:112, 26:146, 31:03-31:04, 31:123, 34:03, 34:06, 34:17, 74:01:03 |
| **15** | 135 bp190 bp | \*66:16, 66:18, 66:22\*66:04, 66:07 | \*03:01:19, 03:103:02, 25:08-25:09, 26:14, 26:18, 26:28, 26:47, 26:73, 26:112, 26:146, 31:03-31:04, 31:123, 34:03, 34:06, 34:17, 34:22, 74:01:03 |

**4**The following HLA-A\*66 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| **Alleles** | **Primer mix** |
| A\*66:08, 66:17 | 12 |
| A\*66:13, 66:19 | 13 |

Abbreviations

‘w’, might be weakly amplified.

‘?’, nucleotide sequence of the primer matching sequence is not known.