Gel Documentation Form and Worksheet

HLA-A\*66 (101.427-06/06u) Lot No: 9E5 Expiry Date: 2019-08-01

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

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

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

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

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

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

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

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

**Gel Picture**

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| 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 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.

Primer mix 15 may have tendency of unspecific amplification.

In primer mix 14 the positive control band may be weaker than for other HLA-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 product generated by the HGH positive control primer pair is 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**Primer mix 5: Specific PCR fragment of 190 bp in the A\*01:134, 02:01:09, 02:05:05, 02:06:07, 02:50, 02:76:02, 02:122, 02:243:02, 02:591:01, 03:09, 03:89:02, 03:108, 03:172, 03:198, 11:06, 11:18, 24:28, 24:89, 26:03:01, 26:06, 26:21, 26:30, 26:78, 26:92, 26:111, 29:19, 29:48, 33:24, 68:05, 68:15, 68:20, 74:06 and 74:21 alleles. Specific PCR fragment of 225 bp in the A\*66:27N and the A\*03:91N and 11:215N alleles.

Primer mix 9: Specific PCR fragment of 155 bp in the A\*66:06 and the A\*02:309, 02:454, 03:01:19, 25:19:01-25:19:02, 25:30, 26:43:01-26:43:02, 26:112, 31:03-31:04, 34:02:01-34:04, 34:06-34:09, 34:13, 34:15 and 74:01:03 alleles. Specific PCR fragment of 235 bp in the A\*66:14 and the A\*25:27:01 and 26:130 alleles.

Primer mix 11: Specific PCR fragment of 190 bp in the A\*66:04, 66:07 and 66:10 and the A\*01:01:56, 25:36, 26:29, 26:49 alleles. Specific PCR fragment of 235 bp in the A\*66:14 and the A\*25:27:01 and 26:130 alleles.

Primer mix 12: Specific PCR fragment of 95 bp in the A\*66:17 and the A\*02:453 and 02:557 alleles. Specific PCR fragment of 220 bp in the A\*66:08 and the A\*02:294, 32:54, 34:01:01?-34:01:02?, 32:54 and 34:05? alleles.

Primer mix 13: Specific PCR fragment of 145 bp in the A\*66:19, 66:22 and 66:26Q and the A\*01:01:56, 03:01:19, 25:09, 26:14, 26:18, 26:28, 26:73, 26:112, 31:03-31:04, 34:03, 34:06, 34:17 and 74:01:03 alleles. Specific PCR fragment of 305 bp in the A\*66:13 allele. Specific PCR fragment of 440 bp in the A\*66:11 allele.

Primer mix 15: Specific PCR fragment of 135 bp in the A\*66:16, 66:18 and 66:22 and the A\*03:01:19, 25:08-25:09, 26:14, 26:18, 26:28, 26:47, 26:73, 26:112, 31:03-31:04, 34:03, 34:06, 34:17 and 74:01:03 alleles. Specific PCR fragment of 190 bp in the A\*66:04 and 66:07 alleles.

**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 |

‘w’, might be weakly amplified.

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