Gel Documentation Form and Worksheet

HLA-A\*30 (101.429-12/12u) Lot No: 8E1 Expiry Date: 2019-07-01

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 mixes 4, 12, 14, 16 and 19 may give rise to unspecific amplifications.

Primer mixes 3 and 8 may give rise to a lower yield of HLA-specific PCR product than the other A\*30 primer mixes.

Primer mix 24 may have a tendency of giving rise to primer oligomer formation.

Primer mix 32 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\*30 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 150 bp in the A\*30:04:01-30:04:02, 30:06, 30:17, 30:29, 30:46, 30:77, 30:90, 30:99 and 30:103 and the A\*02:52, 03:82, 24:66, 24:308, 24:333 and 68:06 alleles. Specific PCR fragment of 245 bp in the A\*30:19 allele.

Primer mix 6: Specific PCR fragment of 80 bp in the A\*30:06 allele. Specific PCR fragment of 185 bp in the A\*30:07 allele.

Primer mix 16: Specific PCR fragment of 235 bp in the A\*30:95 and the A\*36:02 and 36:04 alleles. Specific PCR fragment of 265 bp in the A\*30:15 and 30:33 alleles.

Primer mix18: Specific PCR fragment of 130 bp in the A\*30:32 allele. Specific PCR fragment of 210 bp in the A\*30:20 and 30:71 alleles.

Primer mix 19: Specific PCR fragment of 125 bp in the A\*30:70N allele. Specific PCR fragment of 160 bp in the A\*30:22 allele. Specific PCR fragment of 200 bp in the A\*30:31 allele. Specific PCR fragment of 235 bp in the A\*30:77 and the A\*03:45 alleles.

Primer mix 20: Specific PCR fragment of 210 bp in the A\*30:23 allele. Specific PCR fragment of 275 bp in the A\*30:34 and the A\*03:04:02-03:04:03 and 11:153:01 alleles.

Primer mix 21: Specific PCR fragment of 150 bp in the A\*30:30 and 30:100 alleles. Specific PCR fragment of 185 bp in the A\*30:24 allele.

Primer mix 22: Specific PCR fragment of 180 bp in the A\*30:36 and 30:73N alleles. Specific PCR fragment of 215 bp in the A\*30:27N allele.

Primer mix 24: Specific PCR fragment of 105 bp in the A\*30:78N allele. Specific PCR fragment of 210 bp in the A\*30:25, 30:57, 30:88 and 30:90 and the A\*01:02, 01:20 and 01:190 alleles.

Primer mix 25: Specific PCR fragment of 160 bp in the A\*30:40 and 30:76N alleles. Specific PCR fragment of 235 bp in the A\*30:95 and the A\*36:02 and 36:04 alleles.

Primer mix 26: Specific PCR fragment of 80 bp in the A\*30:42 allele. Specific PCR fragment of 300 bp in the A\*30:81 allele.

Primer mix 27: Specific PCR fragment of 145 bp in the A\*30:56 and the A\*11:166 alleles. Specific PCR fragment of 195 bp in the A\*30:45 allele.

Primer mix 29: Specific PCR fragment of 130 bp in the A\*30:59N, 30:61 and 30:74 and the A\*01:57N, 02:156, 02:338, 03:17:01, 03:171, 11:119:01-11:119:02, 11:209, 24:92 and 68:103:01-68:103:02 alleles. Specific PCR fragment of 190 bp in the A\*30:73N allele.

**4**The following HLA-A\*30 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| **Alleles** | **Primer mix** |
| A\*30:42, 30:81 | 26 |

The HLA-A\*30 kit cannot distinguish silent mutations in the A\*30:01:01-A\*30:01:11 alleles, the 30:02:01:01-30:02:04, 30:02:06-30:02:11, 30:02:13 and 30:02:15-30:02:19, the A\*30:04:01-30:04:02 or the A\*30:11:01-30:11:02 alleles.

’w’, might be weakly amplified.