Gel Documentation Form and Worksheet

DPA1 (101.331-24/06 -24u/06u) Lot No: 2E0 Expiry Date: 2019-05-01

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.

Specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

Primer mix 4 may faintly amplify the DPA1\*04:01 allele.

Primer mix 11 may have tendencies of unspecific amplifications.

Primer mixes 11 and 15 may give rise to a lower yield of HLA-specific PCR product than the other DPA1 primer mixes.

Primer mix 5 has a tendency to giving rise to primer oligomer formation.

Primer mix 6 may give rise to a lower yield of HLA-specific PCR product than the other DPA1 primer mixes in the DPA1\*01:06:01-01:06:02 and 02:04 alleles.

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**DPA1 alleles listed on the IMGT/HLA web page 2016-July-14, release 3.25.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

**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 6: Specific PCR fragment of 160 bp in the DPA1\*01:10 and 02:04 alleles. Specific PCR fragment of 195 bp in the DPA1\*01:06:01-01:06:02 alleles. Specific PCR fragment of 255 bp in the DPA1\*01:13 allele.

Primer mix 11: Specific PCR fragment of 90 bp in the DPA1\*01:12, 03:01 and 03:03 alleles. Specific PCR fragment of 135 bp in the DPA1\*01:07 allele.

4This lot of the DPA1 kit cannot distinguish the DPA1\*02:06 and the DPA1\*02:02:01-02:02:06 alleles.

The DPA1 typing kit cannot distinguish the following silent mutations: DPA1\*01:03:01:01-01:03:02 and DPA1\*01:03:04-01:03:05 the DPA1\*01:06:01-01:06:02, the DPA1\*02:01:01:01-02:01:08 and the DPA1\*02:02:01-02:02:06 alleles.

Change in revision R01 compared to R00:

1. Primer mix 13 does not amplify the DPA1\*02:06 allele. This has been corrected in the Specificity and Interpretation Tables. Thus, this lot of the DPA1 kit cannot distinguish the DPA1\*02:06 and the DPA1\*02:02:01-02:02:06 alleles