Gel Documentation Form and Worksheet

DPA1 (101.331-24/06 -24u/06u) Lot No: 6H1 Expiry Date: 2023-05-01

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

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

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

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

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

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

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

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

**Gel Picture**

|  |
| --- |
| PHOTO DOCUMENT |



Abbreviations

‘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 mixes 11 and 13 may have tendencies of unspecific amplifications.

Primer mix 5 may have tendencies to giving rise to primer oligomer formations.

Primer mix 22 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 2018-October-18, release 3.34.0, [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**The following DPA1 primer mixes have two or more product sizes:

|  |  |  |
| --- | --- | --- |
| **Primer Mix** | **Size of spec. PCR product** | **Amplified DPA1alleles** |
| **3** | 160 bp  205 bp | \*02:11  \*01:03:01:01-01:03:05, 01:06:01-01:07, 01:09-01:17, 03:01:01-03:02 |
| **6** | 160 bp  195 bp  255 bp | \*01:10, 02:04  \*01:06:01-01:06:02  \*01:13 |
| **7** | 100 bp  150 bp | \*01:06:01-01:06:02, 02:01:01:01-02:01:08:02, 02:08-02:09, 02:11  \*01:16 |
| **11** | 90 bp  135 bp | \*01:12, 03:01:01-03:01:02, 03:03  \*01:07 |

Abbreviations

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

Changes in revision R01 compared to R00:

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

Changes in revision R03 compared to R01:

1. Primer mix 19 does not amplify the DPA1\*02:12 allele. The correction above has been implemented in the Specificity and Interpretation tables.