DPA1 (101.331-24/06 -24u/06u) Lot No: 0V3 Expiry Date: 2028-11-01

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 |



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.

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 and 23 may have tendencies to giving rise to primer oligomer formations.

Primer mixes 16 and 22 may give rise to a lower yield of HLA-specific PCR product than the other DPA1 primer mixes.

Primer mix 23 contains a negative control, which will amplify the majority of the 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 200 base pairs.





**1**DPA1 alleles listed on the IMGT/HLA web page 2024-April-10, release 3.56.0, [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 bp205 bp | \*02:11\*01:03:01:01-01:03:57, 01:06:01-01:07, 01:09-01:57, 01:59-01:61, 01:63-01:150, 01:152-01:201, 02:21:01-02:21:04, 02:27:01-02:27:03, 02:50:01-02:50:02, 03:01:01:01-03:02, 03:04-03:06:03, 03:09, 03:11N-03:14, 03:16-03:18 |
| **6** | 160 bp 195 bp255 bp | \*01:10, 02:04\*01:06:01-01:06:05, 02:21:01-02:21:04, 02:27:01-02:27:03, 02:50:01-02:50:02, 03:06:01-03:06:03\*01:13 |
| **7** | 100 bp150 bp | \*01:06:01-01:06:05, 02:01:01:01-02:01:01:04, 02:01:01:06-02:01:31, 02:08-02:09:02, 02:11, 02:13N, 02:16, 02:18-02:19, 02:21:01-02:21:04, 02:24, 02:26:01:01-02:26:01:02, 02:29, 02:31-02:32N, 02:34:01:01-02:34:01:02, 02:36-02:37, 02:39-02:40, 02:43, 02:45:01-02:46, 02:49-02:50:02, 02:53, 02:55, 02:57, 02:59:01-02:61, 02:65-02:66:02N, 02:69:01-02:70, 02:74N-02:75, 02:77-02:80N, 02:82, 02:84, 02:86-02:87, 02:91, 02:93-02:94N, 02:97-02:99, 02:101:01-02:102Q, 02:104, 02:106-02:111, 02:114-02:116, 02:118-02:123, 02:125, 02:129-02:130\*01:16 |
| **11** | 90 bp135 bp | \*01:12:01-01:12:03, 03:01:01:01-03:01:04, 03:03-03:06:03, 03:09-03:14, 03:16-03:18\*01:07 |

**4**The following alleles give rise to identical amplification patterns with the DPA1 resolution primer set.

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| Alleles |
| DPA1\*01:05, 04:05 |
| DPA1\*02:03:02, DPA1\*03:07:02, 03:154 |

Abbreviations

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