Gel Documentation Form and Worksheet

DQA1\*02,05;DQB1\*02,03:02 Lot No: 1K1 Expiry Date: 2022-01-01

(101.903-24/24u)

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.

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

The primer pair in well 19 will in some samples give rise to two HLA-specific PCR fragments and may give rise to a lower yield for the DQB1\*03xx alleles.

Primer mixes 12 and 13 may have tendencies of unspecific amplification.

Primer mix 8 may give rise to a lower yield of HLA-specific PCR product than the other DQA1\*02,05;DQB1\*02,03:02primer mixes.

Primer mix 23 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 products generated by the HGH positive control primer pair are 200 and 430 base pairs.





**1**DQA1 and DQB1 alleles listed on the IMGT/HLA web page 2019-April-17, release 3.36.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

Bold lettering alleles are DQA1\*02,05;DQB1\*02,03:02 associated alleles.

**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>.

Abbreviations

‘?’, nucleotide sequence information not available for the primer matching sequence.

**Expected Results**

Table 1 describes expected results for the (groups of) alleles that the kit is able to detect and separate.

Table 1: Expected results for targeted DQA1 and DQB1 alleles.

|  |  |  |  |
| --- | --- | --- | --- |
| DQA1 alleles | DQB1 alleles | Positive DQA1 wells | Positive DQB1 wells |
| 05:01 | 02:01 (DQ2) | 3, 5, 11 | 12, 14, 16 |
|  |  |  |  |
| *(02:01)*  05:05 | 02:02 (DQ2)  *(03:01)* | 1, 8  3, 5, 6, 10 | 12, 13, 16  14, 19, 21 |
|  |  |  |  |
| 03:01 | 03:02 (DQ8) | 2, 8 | 14, 16, 17, 19, 22 |
| 03:02, 03:03 | 03:02 (DQ8) | 2 | 14, 16, 17, 19, 22 |
|  |  |  |  |
| 05:01 |  | 3, 5, 11 |  |
| 05:05 |  | 3, 5, 6, 10 |  |
| 02:01 |  | 1, 8 |  |
| 03:01 |  | 2, 8 |  |
| 03:02, 03:03 |  | 2 |  |
|  |  |  |  |
|  | 02:01 |  | 12, 14, 16 |
|  | 02:02 |  | 12, 13, 16 |
|  | 03:01 |  | 14, 19, 21 |
|  | 03:02 |  | 14, 16, 17, 19, 22 |

The negative control DNA must only give rise to the internal control bands of 430 or 515 base pairs respectively and no DQA1\*02,05;DQB1\*02,03:02specific bands. Additional bands might indicate inappropriate test conditions or contamination.