Gel Documentation Form and Worksheet

DQB1\*06:02,DQA1\*01:02

(101.901-24/24u) Lot: 1E7 Expiry Date: 2019-02-01

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.

Primer mixes 1, 3 and 4 may give rise to a lower yield of HLA-specific PCR product than the other DQB1\*06:02,DQA1\*01:02 primer mixes.

Primer mix 8 has a tendency to giving rise to primer oligomer formation.

Primer mix 8 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**DQA1, DQB1 and DRB1 alleles listed on the IMGT/HLA web page 2016-April-15, release 3.24.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

Bold lettering alleles are DQA1\*01:02;DQB1\*06:02 and DRB1\*15:01 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>.

The DQB1\*06:02,DQA1\*01:02 kit cannot distinguish the DQB1\*06:02:01-06:02:04 and 06:02-06-06:02:25 alleles or the DQA1\*01:02:01:01-01:02:04 alleles.

## 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, DQB1 and DRB1 alleles.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **DQA1 alleles** | **DQB1 alleles** | **DRB1 alleles** | **Positive DQA1 wells** | **Positive DQB1 wells1** | **Positive DRB1 wells** |
| \*01:02 | \*06:02 | \*15:xx | 2, 3 | 5 | 7 |
|  | \*06:02 | \*15:xx |  | 5 | 7 |
| \*01:02 | \*06:02 |  | 2, 3 | 5 |  |
| \*01:02 |  | \*15:xx | 2, 3 |  | 7 |
|  |  |  |  |  |  |
|  | \*06:02 |  |  | 5 |  |
| \*01:02 |  |  | 2, 3 |  |  |
|  |  | \*15:xx |  |  | 7 |

**1**The DQB1\*06:02:05 allele is also amplified in well 6.

In the negative control well no PCR product should be seen. The presence of PCR product(s) indicates contamination. Primer oligomer artifacts, approximately 40 to 50 bp in size, may be seen. This does not represent contamination.

Changes in revision R01 compared to R00:

1. Primer mix 7 does not amplify the DRB1\*16:05:01-16:05:02 and 16:07 alleles. This has been corrected in the Specificity and Interpretation Tables.