Gel Documentation Form and Worksheet

DQA1 (101.231-24/04, -24u/04u) Lot No: 8G6 Expiry Date: 2021-06-01

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.

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

Primer mixes 7, 14 and 21 may have a tendency to giving rise to primer oligomer formation.

Primer mixes 22 and 27 may have tendencies of unspecific amplifications.

Primer mixes 1 and 24 may give rise to a lower yield of HLA-specific PCR product than the other DQA1 primer mixes.

Primer mix 32 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 alleles listed on the IMGT/HLA web page 2018-July-11, release 3.33.0, [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 DQA1 primer mixes have two or more product sizes:

|  |  |  |
| --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified DQA1alleles |
| **7** | 95 bp  135 bp | \*01:06  \*05:08 |
| **19** | 120 bp  205 bp | \*01:15N  \*05:01:01:01-05:01:02, 05:01:04-05:03:01:02, 05:05:01:01-05:09, 05:11 |
| **21** | 100 bp  210 bp | \*05:02?, 05:04?, 05:05:01:01-05:05:01:10, 05:08-05:09, 05:10?, 05:11  \*01:09 |
| **22** | 120 bp  215 bp | \*06:01:01:01-06:02  \*01:10 |
| **26** | 105 bp  150 bp  170 bp  250 bp | \*01:16N  \*01:08, 04:02, 06:02  \*05:10, 06:02  \*01:12 |
| **27** | 90 bp  135 bp | \*04:03N  \*01:11 |
| **28** | 105 bp  200 bp | \*04:04  \*01:14 |
| **30** | 115 bp  215 bp | \*05:11  \*05:06:01:01-05:06:01:02 |

**4**This lot of the DQA1 kit cannot distinguish the DQA1\*01:07Q and the 01:04:01:01-01:04:02 alleles.

‘w’, may be weakly amplified.

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

Change in revision R01 compared to R00:

1. Primer mix 25 does not amplify the DQA1\*01:07Q and 01:13 alleles. Thus, this lot of the DQA1 kit cannot distinguish the DQA1\*01:07Q and the 01:04:01:01-01:04:02 alleles. This has been corrected in the Interpretation and Specificity Tables.

Change in revision R02 compared to R01:

1. In primer mix 29, the internal positive control band size was corrected in the Specificity and Primer Specification tables as well as the Gel Documentation Sheet.