Gel Documentation Form and Worksheet

DQA1 (101.231-24/04, -24u/04u) Lot No: 9D6 Expiry Date: 2018-11-01

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 |





‘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 2016-January-19, release 3.23.0, [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**Primer mix 21: Specific PCR product of 100 bp in the DQA1\*05:02?, 05:04?, 05:05:01:01-05:05:01:03, 05:08-05:09, 05:10? and 05:11 alleles. Specific PCR product of 210 bp in the DQA1\*01:09allele.

Primer mix 22: Specific PCR product of 120 bp in the DQA1\*06:01:01-06:02 alleles. Specific PCR product of 215 bp in the DQA1\*01:10allele.

Primer mix 25: Specific PCR product of 80 bp in the DQA1\*05:09 allele. Specific PCR product of 175 bp in the DQA1\*01:07Q and 01:13alleles.

Primer mix 27: Specific PCR product of 90 bp in the DQA1\*04:03N allele. Specific PCR product of 135 bp in the DQA1\*01:11allele.

Primer mix 29: Specific PCR product of 150 bp in the DQA1\*01:08 and 06:02 alleles. Specific PCR product of 250 bp in the DQA1\*01:12 allele.

Primer mix 30: Specific PCR product of 115 bp in the DQA1\*05:11 allele. Specific PCR product of 215 bp in the DQA1\*05:06 allele.

The DQA1 typing kit cannot distinguish the DQA1\*01:01:01-01:01:03 alleles, the DQA1\*01:02:01:01-01:02:03 alleles, the DQA1\*01:03:01:01-01:03:01:02 alleles, the DQA1\*01:04:01:01-01:04:02 alleles, the DQA1\*01:05:01-01:05:02 alleles, the 03:01:01 and 03:01:03 alleles, the DQA1\*03:03:01-03:03:02 alleles, the DQA1\*04:01:02:01-04:01:02:02, the DQA1\*05:01:01:01-05:01:02 alleles, the DQA1\*05:05:01:01-05:05:01:03 alleles and the DQA1\*06:01:01-06:01:02 alleles.

‘w’, may be weakly amplified.

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