Gel Documentation Form and Worksheet

DQA1 (101.231-24/04, -24u/04u) Lot No: 7L8 Expiry Date: 2025-01-01

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.

Primer mixes 7, 14, 15, 21 and 32 may have a tendency to giving rise to primer oligomer formation.

Primer mix 22 has a tendency 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 the majority 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 200 base pairs.





**1**DQA1 alleles in bold lettering are listed on the IMGT/HLA web page 2018-October-18, release 3.34.0, [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 |
| **15** | 165 bp  190 bp | \*05:01:01:01-05:01:02, 05:01:04-05:09, 05:11-05:29Q  \*01:10, 01:42 |
| **19** | 120 bp  205 bp | \*01:15N  \*05:01:01:01-05:01:02, 05:01:04-05:03:02, 05:05:01:01-05:09, 05:11-05:29Q |
| **21** | 100 bp  210 bp | \*05:02?, 05:04?, 05:05:01:01-05:05:05, 05:08-05:09, 05:10?, 05:11, 05:12?, 05:13-05:14, 05:15N?-05:17N?, 05:20, 05:21?-05:22?, 05:24, 05:25?-05:28?, 05:29Q  \*01:09 |
| **22** | 120 bp  215 bp | \*06:01:01:01-06:02  \*02:02N |
| **25** | 80 bp  175 bp | \*05:09  \*01:07Q, 01:13, 01:24, 01:43 |
| **26** | 105 bp  160 bp  250 bp | \*01:16N  \*01:08, 04:02, 05:10, 06:02  \*01:12 |
| **27** | 90 bp  135 bp | \*04:03N  \*01:11 |
| **28** | 105 bp  200 bp | \*04:04  \*01:14 |
| **29** | 90 bp  120 bp | \*05:02  \*03:04 |
| **30** | 115 bp  215 bp | \*05:11  \*05:06:01:01-05:06:01:03 |

Abbreviations

w: may be weakly amplified.

?: nucleotide sequence information not available for the primer matching sequence.