Gel Documentation Form and Worksheet

DRB4 (101.122-24/06, -24u/06u) Lot No: 8K4 Expiry Date: 2024-02-01

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sample ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DNA Conc.(ng/ul):\_\_\_\_\_\_\_\_\_

Test Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tested By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Review Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reviewed By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Interpretation:\_\_\_\_\_\_\_\_\_\_ Failed lanes: \_\_\_\_\_\_\_\_\_\_\_ Comments:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

**Gel Picture**

|  |
| --- |
| PHOTO DOCUMENT |





Abbrevations

‘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 5, 7 and 30 may have tendencies of unspecific amplifications.

Primer mixes 2 and 9 have a tendency to giving rise to primer oligomer formation.

Primer mix 32 contains a negative control, which will amplify the majority of the 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**DRB4 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), release 3.29.0, August 2017.

**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 DRB4 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified DRB4alleles | Other amplified DRBalleles |
| **6** | 115 bp200 bp | \*01:12\*01:04, 01:14 |  |
| **13** | 110 bp140 bp215 bp | \*01:12, 01:39\*01:45\*01:08 |  |
| **15** | 190 bp245 bp | \*01:10, 01:30\*01:02?, 01:21 |  |
| **16** | 125 bp200 bp265 bp | \*01:13\*01:57N\*01:02?, 01:17 |  |
| **19** | 210 bp230 bp | \*01:27-01:29\*01:65N | **DRB1\*03:109, DRB1\*12:64, DRB1\*13:187, DRB1\*15:93** |
| **20** | 225 bp250 bp | \*01:23, 01:27, 01:65N\*01:22 | **DRB1\*03:109, DRB1\*04:109, DRB1\*12:64-12:65, DRB1\*13:187, DRB1\*13:258, DRB1\*15:42, DRB1\*15:93** |
| **21** | 105 bp220 bp235 bp | \*01:20\*01:05?, 01:07:01?, 01:36\*01:42 |  |
| **22** | 100 bp230 bp | \*01:33, 01:40\*01:38N |  |
| **23** | 105 bp200 bp240 bp | \*01:24\*01:61N\*01:37 |  |
| **24** | 75 bp175 bp240 bp | \*01:32\*01:35, 01:43\*01:54N |  |
| **25** | 75 bp160 bp | \*01:44\*01:15, 01:35, 01:56N |  |
| **26** | 135 bp160 bp | \*01:25\*01:18, 01:34, 01:56N |  |
| **27** | 160 bp210 bp | \*01:19, 01:34\*01:42, 01:61N |  |
| **30** | 200 bp235 bp | \*01:57N\*01:41 |  |

**4**The following DRB4 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |  |  |
| --- | --- | --- | --- |
| **Alleles** | **Primer mix** | **Alleles** | **Primer mix** |
|  DRB4\*01:08, 01:39 | 13 | DRB4\*01:24, 01:37 | 23 |
| DRB4\*01:15, 01:44 | 25 | DRB4\*01:32, 01:43, 01:54N | 24 |
| DRB4\*01:20, 01:36 | 21 | DRB4\*01:33, 01:38N, 01:40 | 22 |

Abbrevations

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

‘w’, may be weakly amplified.

Changes in revision R01 compared to R00:

1. The reactivity pattern of the DRB4\*01:14N allele has been modified.