Gel Documentation Form and Worksheet

DRB4 (101.122-24/06, -24u/06u) Lot No: 8E8 Expiry Date: 2019-10-01

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.

The DRB1\*15:01:01:01-15:01:30, 15:02:01:01-15:02:17, 15:03:01:01-15:137N and the DRB1\*16:01:01-16:05:02, 16:07-16:41N alleles might be faintly amplified by primer mix 7.

Primer mixes 5 and 7 may have tendencies of unspecific amplifications.

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

Primer mix 8 may give rise to a lower yield of HLA-specific PCR product than the other DRB4 primer mixes.

Primer mix 31 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**DRB4 alleles listed on the IMGT/HLA web page 2016-October-14, release 3.26.0, [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 DRB1\*15:01:01:01-15:01:30, 15:02:01:01-15:02:17, 15:03:01:01-15:137N and the DRB1\*16:01:01-16:05:02, 16:07-16:41N alleles might be faintly amplified by primer mix 7.

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

|  |  |
| --- | --- |
| Alleles | Primer mix |
| DRB4\*01:20, 01:36 | 21 |
| DRB4\*01:38N, 01:40 | 22 |

The DRB4 subtyping kit cannot distinguish the silent mutation in the DRB4\*01:03:01:01, 01:03:01:03-01:03:04 alleles.

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