Gel Documentation Form and Worksheet

DR low resolution (101.101-48/12, -48u/12u) Lot No: 1K2 Expiry Date: 2023-09-01

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 |



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 1, 3, 12, 16, 19 and 28 have a tendency to giving rise to primer oligomer formation.

Primer mix 19 has a tendency of primer oligomer formation and also has an intense primer cloud due to the high number of primers present in the primer mix.

Primer mixes 3, 9 and 27 may have tendencies of unspecific amplifications.

The DRB4\*01:03:01:02N allele is amplified by the primer pairs in primer mixes 18 and 30, whereas the DRB4\*02:01N and DRB4\*03:01N null alleles are only amplified by the primer pairs in primer mix 30.

The DRB5\*01:08N allele is amplified by the primer pairs in primer mix 24 in addition to primer mix 31.

Due to sharing of sequence motifs in codon 38 and 47, DRB3\*01:14 will also be amplified in primer mixes 5, 6 and 17 and the DRB3\*01:23 and DRB3\*02:32 alleles are amplified in mix 5, in addition to primer mix 29.

Due to sharing of sequence motifs, DRB3\*01:42 is amplified by the primer pairs in primer mix 11, DRB3\*02:27 is amplified by the primer pairs in primer mix 15 and the DRB3\*02:27 and DRB3\*02:58 alleles are amplified in primer mix 28, in addition to primer mix 29.

Due to sharing of sequence motifs, DRB4\*01:31 is amplified by the primer pairs in primer mix 20 in addition to primer mix 30.

In primer mix 29, the specific PCR product of 240 base pairs may be difficult to distinguish from the internal control band.

Primer mix 32 contains a negative control, which will amplify a 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**DRB alleles listed on the IMGT/HLA web page 2019-April-17, release 3.36.0, [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 serological reactivity of all DRB alleles is not known. In this table we use the information in the HLA Dictionary 2004 on the www.ebi.ac.uk/imgt/hla web site, the information available at the [www.worldmarrow.org](http://www.worldmarrow.org) web site and the expert-assigned serological grouping in Tissue Antigens (2009) **73**:95-170.

4The following alleles give rise to identical amplification patterns with the DR low resolution primer set. These alleles can be separated by the respective high-resolution primer sets.

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| **Alleles** |
| DRB1\*08:31, DRB1\*11:05 |

Abbreviations

‘w’, might be weakly amplified.

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