Gel Documentation Form and Worksheet

DR low resolution (101.101-48/12, -48u/12u) Lot No: 1E5 Expiry Date: 2019-02-01

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

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

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

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

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

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

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

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

**Gel Picture**

|  |
| --- |
| PHOTO DOCUMENT |





‘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.

Individual alleles can give to rise to two differently sized specific PCR fragments in primer mix 1, 3, 5 to 8, 10, 11, 13, 14, 16, 18 to 20, 22, 27 and 29.

Primer mixes 1, 3, 8, 11, 12, 16 and 18 have a tendency to giving rise to primer oligomer formation, most pronounced in primer mix 12.

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, 4, 9 and 27 may have tendencies of unspecific amplifications.

Due to sharing of sequence motifs, the DRB4\*01:03:01:02N allele is amplified by the primer pairs in well 18 in addition to primer mix 30.

Due to sharing of sequence motifs, DRB3\*02:27 is amplified by the primer pairs in well 15 in addition to primer mix 29.

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 DRB3\*01:23 and \*02:32 in primer mix 5, in addition to primer mix 29.

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

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

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**DRB alleles listed on the IMGT/HLA web page 2016-April-15, release 3.24.0, [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.

 ‘w’, might be weakly amplified.

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

Changes in revision R01 compared to R00:

1. Due to sharing of sequence motifs, DRB3\*01:23 and \*02:32 will be amplified in primer mix 5, in addition to primer mix 21.
2. The DRB1\*13:02:02 allele is amplified in primer mix 6.

The Specificity and Interpretation Tables have been changed.

Changes in revision R02 compared to R01:

1. Primer mix 3 does not amplify the DRB1\*16:05:01-16:05:02 and 16:07 alleles. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R03 compared to R02:

1. Primer mix 6 does not amplify the DRB1\*14:137N and 14:152N alleles. Primer mix 15 does not amplify the DRB1\*14:137N allele. This has been corrected in the Specificity and Interpretation Tables.