Gel Documentation Form and Worksheet

DQ-DR Combi Tray Lot No: 1E8 Expiry Date: 2019-03-01

(101.704-48/12, -48u/12u)

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

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

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

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

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

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

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

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

**Gel Picture**

|  |
| --- |
| PHOTO DOCUMENT |

**DQ low resolution**



**DR low resolution**



‘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-DQ low resolution primer set**

HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

The primer pairs in wells 1, 2, 4 and 8 will in some samples give rise to two HLA-specific PCR fragments.

Primer mixes 4, 7, 9 and 12 may give rise to a lower yield of HLA-specific PCR product than the other DQ low primer mixes, most pronounced in primer mixes 4, 7 and 12.

Primer mix 13 may have a tendency of unspecific amplification.

**HLA-DR low resolution primer set**

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 mixes 15, 19 to 22, 24, 25, 27, 28, 30, 32 to 34, 36, 41 and 43.

Due to sharing of sequence motifs in codon 38 and 47, DRB3\*01:14 will also be amplified in primer mixes 19, 20 and 31 and DRB3\*01:23 and \*02:32 in mix 13, in addition to primer mix 43.

Due to sharing of sequence motifs, DRB3\*02:27 is amplified by the primer pairs in well 29 in addition to primer mix 43.

DRB5\*01:08N is amplified by the primer pairs in well 38 in addition to primer mix 45.

Primer mixes 15, 17, 30, 33 and 36 may have a tendency of giving rise to primer oligomer formation.

Primer mix 33 has a tendency of giving rise to an intense primer cloud due to the high number of primers present in the primer mix.

Primer mixes 17, 18 and 23 may have a tendency of unspecific amplification.

Primer mix 46 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.

**DQ low resolution Interpretation Table**



**1**DQB1 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 DQ alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) **73**:95-170 and the serological grouping of the sequence-defined allele. The DQB1\*03:10 allele has been assigned type DQ7 by NMDP.

‘w’, might be weakly amplified.

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

**DR low resolution Interpretation Table**













**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).

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**3**The serological split of all DRB1 alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) **73**:95-170 and the serological grouping of the sequence-defined allele.

‘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 in codon 38 and 47, DRB3\*01:14 will also be amplified in primer mixes 19, 20 and 31 and DRB3\*01:23 and \*02:32 in mix 19, in addition to primer mix 43.
2. The DRB1\*13:02:02 allele is amplified in primer mix 20.

The Specificity and Interpretation Tables have been changed.

Changes in revision R02 compared to R01:

1. Primer mix 17 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 20 does not amplify the DRB1\*14:137N and 14:152N alleles. Primer mix 29 does not amplify the DRB1\*14:137N allele. This has been corrected in the Specificity and Interpretation Tables.