Gel Documentation Form and Worksheet

DRB1\*07 (101.118-24/24u) Lot No: 3E8 Expiry Date: 2019-04-01

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

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

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

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

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

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

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

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

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| --- |
| PHOTO DOCUMENT |

**Gel Picture**

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‘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 fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

Primer mixes 1 and 9 have a tendency to giving rise to primer oligomer formation..

Primer mix 22 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**DRB1\*07 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 3.25.0, July 2016.

**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**Primer mix 4: Specific PCR fragment of 90 bp in the DRB1\*07:10N allele. Specific PCR fragment of 235 bp in the DRB1\*07:04 and 07:25 alleles.

Primer mix 5: Specific PCR fragment of 190 bp in the DRB1\*07:05 allele. Specific PCR fragment of 235 bp in the DRB1\*07:11 and 07:25 alleles.

Primer mix 6: Specific PCR fragment of 160 bp in the DRB1\*07:06 and 07:29 alleles. Specific PCR fragment of 250 bp in the DRB1\*07:32 allele.

Primer mix 8: Specific PCR fragment of 175 bp in the DRB1\*07:08 and 07:26N alleles. Specific PCR fragment of the 210 bp in the DRB1\*07:51 allele.

Primer mix 9: Specific PCR fragment of 105 bp in the DRB1\*07:12 and the DRB1\*04:90 and 09:08 alleles. Specific PCR fragment of 240 bp in the DRB1\*07:22 and 07:23 alleles.

Primer mix 10: Specific PCR fragment of 120 bp in the DRB1\*07:34 allele. Specific PCR fragment of 165 bp in the DRB1\*07:13 allele. Specific PCR fragment of 220 bp in the DRB1\*07:18 allele.

Primer mix 11: Specific PCR fragment of 110 bp in the DRB1\*07:14 and 07:34 alleles. Specific PCR fragment of 260 bp in the DRB1\*07:24 allele.

Primer mix 12: Specific PCR fragment of 210 bp in the DRB1\*07:15 and 07:21 alleles. Specific PCR fragment of 245 bp in the DRB1\*07:23 allele.

Primer mix 14: Specific PCR fragment of 125 bp in the DRB1\*07:27 allele. Specific PCR fragment of 215 bp in the DRB1\*07:17 allele. Specific PCR fragment of 260 bp in the DRB1\*07:20 allele.

Primer mix 15: Specific PCR fragment of 155 bp in the DRB1\*07:19 and 07:28 alleles. Specific PCR fragment of 220 bp in the DRB1\*07:18 allele. Specific PCR fragment of 260 bp in the DRB1\*07:20 allele.

Primer mix 17: Specific PCR fragment of 155 bp in the DRB1\*07:40 allele. Specific PCR fragment of 265 bp in the DRB1\*07:56 allele.

Primer mix 18: Specific PCR fragment of 140 bp in the DRB1\*07:46 allele. Specific PCR fragment of 235 bp in the DRB1\*07:61 allele.

Primer mix 19: Specific PCR fragment of 135 bp in the DRB1\*07:30 allele. Specific PCR fragment of 220 bp in the DRB1\*07:42 allele.

Primer mix 20: Specific PCR fragment of 110 bp in the DRB1\*07:39 allele. Specific PCR fragment of 190 bp in the DRB1\*07:68N allele.

Primer mix 21: Specific PCR fragment of 125 bp in the DRB1\*07:48 allele. Specific PCR fragment of 180 bp in the DRB1\*07:44 allele.

**4**The following DRB1\*07 alleles can be distinguished by the different sizes of the specific PCR product:

|  |  |  |  |
| --- | --- | --- | --- |
| Alleles | Primer mix | Alleles | Primer mix |
| DRB1\*07:06, 07:32 | 6 | DRB1\*07:39, 07:68N | 20 |
| DRB1\*07:14, 07:24 | 11 | DRB1\*07:40, 07:56 | 17 |
| DRB1\*07:17, 07:27 | 14 | DRB1\*07:44, 07:48 | 21 |
| DRB1\*07:30, 07:42 | 19 |  |  |

The DRB1\*07 subtyping kit cannot distinguish the silent mutations in the DRB1\*07:01:01:01 to DRB1\*07:01:19 alleles.