Gel Documentation Form and Worksheet

DRB1\*07 (101.118-24/24u) Lot No: 6K9 Expiry Date: 2024-02-01

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

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

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

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

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

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

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

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

|  |
| --- |
| PHOTO DOCUMENT |

**Gel Picture**



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

Primer mixes 1, 9 and 22 have a tendency to giving rise to primer oligomer formation.

Primer mix 13 may have a tendency of unspecific amplification.

Primer mix 22 contains a negative control, which will amplify the 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**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**The following DRB1\*07 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified DRB1\*07alleles | Amplified non-DRB1\*07alleles |
| **4** | 90 bp 235 bp | \*07:10N\*07:04, 07:25 |  |
| **5** | 190 bp 235 bp | \*07:05\*07:11, 07:25 |  |
| **6** | 160 bp250 bp | \*07:06, 07:29\*07:32 |  |
| **8** | 175 bp210 bp | \*07:08, 07:26N\*07:51 |  |
| **9** | 105 bp240 bp | \*07:12\*07:22-07:23 | \*04:90, 09:08 |
| **10** | 120 bp165 bp220 bp | \*07:34\*07:13\*07:18 | \*09:35 |
| **11** | 110 bp260 bp | \*07:14, 07:34\*07:24 | \*09:35 |
| **12** | 210 bp245 bp | \*07:15, 07:21\*07:23 |  |
| **14** | 125 bp215 bp260 bp | \*07:27\*07:17\*07:20 |  |
| **15** | 155 bp220 bp260 bp | \*07:19, 07:28\*07:18\*07:20 |  |
| **17** | 155 bp265 bp | \*07:40\*07:56 |  |
| **18** | 140 bp235 bp | \*07:46\*07:61 |  |
| **19** | 135 bp220 bp | \*07:30\*07:42 |  |
| **20** | 110 bp190 bp | \*07:39\*07:68N |  |
| **21** | 125 bp180 bp | \*07:48\*07:44 |  |

**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 |  |  |