Gel Documentation Form and Worksheet

DRB1\*01 (101.111-24/06 -24u/06u) Lot No: 1H1 Expiry Date: 2021-05-01

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.

Primer mix 1 has a tendency of giving rise to primer oligomer formation.

Primer mix 18 may have tendency of unspecific amplification and may give rise to a lower yield of HLA-specific PCR product than the other DRB1\*01 primer mixes.

Primer mix 24 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\*01 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 3.26.0, October 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\*01 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified DRB1\*01alleles | Other amplified DRB1 alleles |
| **4** | 180 bp  210 bp | \*01:62N  \*01:03:01-01:03:02, 01:10, 01:39N, 01:42, 01:61, 01:89 |  |
| **5** | 210 bp  230 bp | \*01:29:01, 01:74  \*01:04, 01:11:01-01:11:02, 01:16, 01:35, 01:55, 01:89 |  |
| **6** | 135 bp  215 bp | \*01:05, 01:31  \*01:29:01-01:29:02, 01:74 |  |
| **8** | 115 bp  175 bp  210 bp | \*01:50  \*01:27  \*01:07 | \*14:112, **DRB3\*01:47** |
| **9** | 110 bp  255 bp | \*01:08  \*01:04, 01:06, 01:20:01-01:20:02, 01:61, 01:85 |  |
| **10** | 210 bp  250 bp | \*01:06, 01:09, 01:15  \*01:52N |  |
| **11** | 140 bp  210 bp | \*01:18:01-01:18:02, 01:44:01-01:44:02  \*01:10, 01:68N |  |
| **12** | 140 bp  180 bp  215 bp | \*01:31  \*01:26, 01:37  \*01:12 |  |
| **13** | 85 bp  150 bp  215 bp | \*01:13  \*01:28  \*01:23, 01:51 |  |
| **14** | 170 bp  205 bp | \*01:14  \*01:23-01:24:02, 01:51, 01:54, 01:68N |  |
| **15** | 150 bp  220 bp | \*01:28  \*01:16, 01:21, 01:55 |  |
| **16** | 200 bp  230 bp | \*01:24:01-01:24:02, 01:54  \*01:19, 01:21 |  |
| **17** | 125 bp  230 bp  260 bp | \*01:30  \*01:27  \*01:22 | \*13:165, **DRB3\*02:63**  **DRB3\*01:47** |
| **18** | 115 bp  230 bp | \*01:50  \*01:25 |  |
| **19** | 125 bp  235 bp  270 bp | \*01:67  \*01:77  \*01:39N-01:40N | \*14:196 |
| **20** | 205 bp  235 bp | \*01:33N  \*01:77 | \*14:196 |
| **21** | 90 bp  180 bp  250 bp | \*01:34  \*01:62N  \*01:32 |  |
| **22** | 205 bp  250 bp | \*01:36  \*01:52N |  |

**4**The following DRB1\*01 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| **Alleles** | **Primer mix** |
| DRB1\*01:40N, 01:67 | 19 |

’w’, might be weakly amplified.