Gel Documentation Form and Worksheet

DRB1\*01 (101.111-24/06 -24u/06u) Lot No: 1H1 Expiry Date: 2022-11-01

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.

Changes in revision R01 compared to R00:

1. The expiration date has been altered due to extension of shelf-life.



**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 bp210 bp | \*01:62N\*01:03:01-01:03:02, 01:10, 01:39N, 01:42, 01:61, 01:89 |  |
| **5** | 210 bp230 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 bp230 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 bp235 bp270 bp | \*01:67\*01:77\*01:39N-01:40N | \*14:196 |
| **20** | 205 bp235 bp | \*01:33N\*01:77 | \*14:196 |
| **21** | 90 bp180 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.