Gel Documentation Form and Worksheet

DRB1\*16 (101.126-12/12u) Lot No: 7L3 Expiry Date: 2024-11-01

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

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

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

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

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

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

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

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

**Gel Picture**

|  |
| --- |
| PHOTO DOCUMENT |



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

Primer mix 3 may have a tendency to giving rise to primer oligomer formation.

Primer mix 16 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 430 base pairs



**1**DRB1\*16 alleles in bold lettering are listed as confirmed alleles on the IMGT/HLA web page [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), release 3.33.0, July 2018.

**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\*16 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified DRB1\*16  alleles | Other amplified DRB1 alleles |
| **4** | 115 bp  215 bp  230 bp | \*16:30  \*16:03  \*16:46 | \*15:37:02, 15:57, 15:104:02-15:104:03 |
| **5** | 220 bp  250 bp | \*16:04:01-16:04:02, 16:18  \*16:41N | \*15:21 |
| **6** | 200 bp  280 bp | \*16:05:01-16:05:02, 16:07  \*16:35 | \*15:10, 15:21 |
| **8** | 110 bp  175 bp  205 bp  250 bp | \*16:08  \*16:14  \*16:26  \*16:41N | \*15:172 |
| **9** | 140 bp  215 bp | \*16:09:01-16:10:02, 16:33, 16:36-16:37, 16:58  \*16:40 | \*15:01:01:01-15:01:21, 15:01:23-15:02:09, 15:02:11-15:06:04, 15:08, 15:10, 15:12-15:27, 15:29-15:33, 15:35-15:47, 15:49-15:58, 15:60-15:68, 15:70-15:87, 15:89-15:95, 15:97-15:114, 15:116-15:129N, 15:131-15:142, 15:144-15:186 |
| **11** | 170 bp  210 bp | \*16:21N  \*16:11, 16:25 |  |
| **12** | 215 bp  240 bp | \*16:12, 16:17  \*16:22 | **DRB5\*01:20, DRB5\*01:47, DRB5\*01:64, DRB5\*02:08, DRB5\*02:12, DRB5\*02:25N** |
| **13** | 120 bp  165 bp  215 bp | \*16:19  \*16:13N, 16:14  \*16:40 |  |
| **14** | 85 bp  110 bp  170 bp  240 bp | \*16:16, 16:27  \*16:36-16:37  \*16:21N  \*16:22 | \*11:01:03, 11:01:10-11:01:11, 11:04:07, 11:08:03, 11:19:02, 11:42:02, 12:04, **DRB5\*01:13, DRB5\*01:41**  **DRB5\*01:20, DRB5\*01:47, DRB5\*01:64, DRB5\*02:08, DRB5\*02:12, DRB5\*02:25N** |

**4**The following DRB1\*16 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| Alleles | Primer mix |
| DRB1\*16:03, 16:30 | 4 |