Gel Documentation Form and Worksheet

DRB1\*15 (101.125-24/06,-24u/06u) Lot No: 2L7 Expiry Date: 2024-07-01

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 22 may have a tendency for unspecific amplification.

Primer mixes 26 and 28 have a tendency to giving rise to primer oligomer formation.

Primer mix 32 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\*15 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 3.26.0, 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\*15 primer mixes have two or more product sizes:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified DRB1\*15  alleles | | Other amplified  DRB1 alleles |
| **6** | 150 bp  180 bp | \*15:03:01:01-15:03:05, 15:57, 15:78, 15:94, 15:130, 15:137N, 15:163N, 15:165, 15:178  \*15:14 |  | |
| **8** | 200 bp  245 bp | \*15:05, 15:23, 15:25, 15:27, 15:31:01-15:31:02, 15:34, 15:54, 15:63, 15:66:01-15:66:02, 15:73, 15:100, 15:120  \*15:36 |  | |
| **9** | 90 bp  165 bp  215 bp | \*15:06:01-15:06:03, 15:77, 15:94, 15:125, 15:155  \*15:138N  \*15:19, 15:69, 15:110, 15:113N |  | |
| **10** | 170 bp  200 bp | \*15:12  \*15:04, 15:15:01-15:15:03, 15:88, 15:142, 15:147 |  | |
| **11** | 155 bp  200 bp | \*15:47, 15:65  \*15:49 | \*16:48 | |
| **12** | 95 bp  220 bp | \*15:09, 15:48  \*15:123 | \*04:162, 11:88, 13:177, 16:44 | |
| **13** | 110 bp  215 bp | \*15:32  \*15:10, 15:84, 15:103, 15:117, 15:120 |  | |
| **15** | 150 bp  205 bp | \*15:68, 15:136  \*15:10, 15:21, 15:27, 15:34, 15:54, 15:66:01-15:66:02, 15:122 | \*16:05:01-16:05:02, 16:07 | |
| **16** | 110 bp  210 bp  260 bp | \*15:102  \*15:08, 15:129N  \*15:74 |  | |
| **17** | 160 bp  220 bp | \*15:18  \*15:123 |  | |
| **18** | 160 bp  205 bp | \*15:115N  \*15:20 | \*04:226:01, 13:28:02 | |
| **19** | 175 bp  225 bp | \*15:30  \*15:21, 15:25, 15:37:01-15:37:02, 15:57, 15:100, 15:104:01-15:104:03 | \*16:04:01-16:04:02, 16:18, 16:46 | |
| **20** | 165 bp  200 bp | \*15:22  \*15:25, 15:27, 15:34, 15:54, 15:66:01-15:66:02, 15:100, 15:112, 15:120 |  | |
| **22** | 170 bp  200 bp | \*15:24, 15:93, 15:138N  \*15:28, 15:40 |  | |
| **23** | 125 bp  170 bp  220 bp | \*15:55  \*15:29  \*15:25 |  | |
| **24** | 130 bp  185 bp | \*15:61  \*15:26, 15:40, 15:43 |  | |
| **25** | 70 bp  135 bp  195 bp | \*15:39  \*15:61, 15:67  \*15:33, 15:113N |  | |
| **26** | 75 bp  125 bp  195 bp | \*15:38, 15:63  \*15:75  \*15:134N |  | |
| **27** | 110 bp  135 bp  175 bp | \*15:64  \*15:67  \*15:14, 15:42, 15:93 |  | |
| **28** | 135 bp  255 bp | \*15:16, 15:118, 15:156  \*15:35, 15:96 | \*16:34, 16:38:01-16:38:02 | |
| **29** | 100 bp  200 bp | \*15:137N  \*15:41, 15:50N, 15:80N, 15:112 |  | |
| **30** | 165 bp  215 bp | \*15:45  \*15:44, 15:129N |  | |

**4**The following DRB1\*15 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| Alleles | Primer mix |
| DRB1\*15:06:01-15:06:04, 15:77,15:110, 15:125 | 9 |
| DRB1\*15:16, 15:35 | 28 |
| DRB1\*15:19, 15:155 | 9 |
| DRB1\*15:30, 15:104:01-15:104:03 | 19 |
| DRB1\*15:42, 15:64 | 27 |
| DRB1\*15:75, 15:134N | 26 |

**5**The following alleles give rise to identical amplification patterns with the DRB1\*15 high resolution kit. These alleles can be distinguished by the DR low resolution and/or DRB1\*16 kits:

|  |  |
| --- | --- |
| Alleles |  |
| DRB1\*15:70, 15:89, 15:91, 15:157-15:158 | *DRB1\*16:33, 16:36, 16:58* |

Abbreviations

w: may be weakly amplified