Gel Documentation Form and Worksheet

DRB1\*15 (101.125-24/06,-24u/06u) Lot No: 7G1 Expiry Date: 2021-03-01

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 22 may have a tendency of unspecific amplification.

Primer mixes 19, 25, 26, 27 and 28 have a tendency to giving rise to primer oligomer formation.

Primer mix 32 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.

Change in revision R01 compared to R00:

1. Primer mix 7 does not amplify the DRB1\*15:56 allele. Thus, this lot of the DRB1\*15 subtyping kit cannot distinguish the DRB1\*15:56 and DRB1\*15:01:01:01-15:01:35, 15:51-15:53, 15:62, 15:71-15:72, 15:76, 15:79, 15:81-15:83, 15:86-15:87, 15:90, 15:92, 15:95, 15:97-15:98, 15:106-15:109, 15:111, 15:114, 15:116, 15:121, 15:124, 15:127-15:128, 15:132-15:133, 15:135, 15:139, 15:141, 15:144-15:146 and 15:150 alleles. This has been corrected in the Specificity and Interpretation Tables.





**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 | \*15:03:01:01-15:03:02, 15:57, 15:78, 15:94, 15:130, 15:137N  \*15:14 |  | |
| **8** | 200 bp  245 bp | \*15:05, 15:23, 15:25, 15:27, 15:31, 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  \*15:138N  \*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 |  | |
| **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 | |
| **19** | 175 bp  225 bp | \*15:30  \*15:21, 15:25, 15:37:01-15:37:02, 15:57, 15:100, 15:104:01-15:104:02 | \*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** | 140 bp  200 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  \*15:35, 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\*15:06:01-15:06:03, 15:77,15:110, 15:125 | 9 |
| DRB1\*15:16, 15:35 | 28 |
| DRB1\*15:30, 15:104:01-15:104:02 | 19 |
| DRB1\*15:42, 15:64 | 27 |
| DRB1\*15:75, 15:134N | 26 |

5The DRB1\*15:70, 15:89 and 15:91 and the DRB1\*16:33 and 16:36 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.

6This lot of the DRB1\*15 subtyping kit cannot distinguish the DRB1\*15:56 and DRB1\*15:01:01:01-15:01:35, 15:51-15:53, 15:62, 15:71-15:72, 15:76, 15:79, 15:81-15:83, 15:86-15:87, 15:90, 15:92, 15:95, 15:97-15:98, 15:106-15:109, 15:111, 15:114, 15:116, 15:121, 15:124, 15:127-15:128, 15:132-15:133, 15:135, 15:139, 15:141, 15:144-15:146 and 15:150 alleles.

‘w’, may be weakly amplified.