Gel Documentation Form and Worksheet

DRB1\*08 (101.127-12/04, -12u/04u) Lot No: 2F0 Expiry Date: 2019-12-01

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 mixes 2 and 5 may have tendencies of unspecific amplifications.

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

Primer mix 24 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.





**1**DRB1\*08 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\*08 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified DRB1\*08 alleles | Other amplified DRB1 alleles |
|  **9** | 125 bp175 bp | \*08:26, 08:35-08:36:02\*08:14 | \*03:12, 04:202, 13:32, 13:65, 13:93, 13:120, 13:139, 14:13, 14:63, 14:65, 14:78, 14:85, 14:169-14:170 |
| **10** | 205 bp 250 bp | \*08:40\*08:12, 08:22 | \*13:17, 13:116, 13:175, 13:214\*12:01:01:01-12:02:06, 12:04-12:15, 12:17-12:18, 12:20-12:21, 12:23-12:38, 12:40-12:41, 12:43-12:56, 12:58-12:60N, 14:28 |
| **12** | 95 bp 145 bp 195 bp220 bp | \*08:27\*08:44\*08:13, 08:48\*08:43 | \*12:12 |
| **13** | 135 bp 165 bp 260 bp | \*08:33\*08:11\*08:39 |  |
| **14** | 135 bp250 bp | \*08:17, 08:28, 08:37, 08:45:01-08:45:02, 08:63\*08:60N | \*03:92, 11:67, 11:193, 12:01:01:01-12:20, 12:22-12:37, 12:39-12:41, 12:43-12:52, 12:54-12:56, 12:58-12:60N, 13:17, 13:175, 13:214, 14:138, 14:175 |
| **17** | 75 bp 175 bp | \*08:04:01, 08:04:02w-08:04:03w, 08:04:04-08:04:07, 08:06, 08:10, 08:12, 08:20, 08:22, 08:28, 08:54, 08:59, 08:67, 08:70, 08:75, 08:80\*08:14 | \*04:12, 04:18, 04:25, 04:58, 11:25, 11:67, 11:119, 13:18, 13:144, 13:156, 13:164, 14:12:01-14:12:02, 14:15, 14:78, 14:84, 14:156, 14:173, 15:21 |
| **18** | 150 bp 225 bp | \*08:09, 08:21, 08:32, 08:35\*08:20 | \*14:15, 14:40, 14:55, 14:77, 14:84, 14:136, 14:164, 14:173\*11:23:01-11:23:02, 11:25, 11:45, 11:55, 11:64, 11:119, 13:13, 13:18, 13:47, 13:55, 13:119, 13:144, 13:146, 13:154, 13:156, 13:158, 13:164, 14:03:01-14:03:02, 14:12:01-14:12:02, 14:27:01-14:27:02, 14:40, 14:55, 14:63, 14:67, 14:77-14:78, 14:84-14:85, 14:89, 14:102, 14:115-14:116, 14:135-14:136, 14:144, 14:156, 14:164, 14:173-14:174, 14:181 |
| **19** | 100 bp 170 bp | \*08:16, 08:38\*08:07, 08:49 |  |
| **21** | 70 bp120 bp | \*08:78N\*08:17, 08:28, 08:37, 08:45:01-08:45:02, 08:63 | \*11:23:01-11:23:02, 11:25, 11:45, 11:55, 11:64, 11:67, 11:119, 13:18, 13:119, 13:144, 13:146, 13:154, 13:156, 13:158, 15:21 |
| **22** | 130 bp 165 bp 215 bp | \*08:23\*08:19\*08:29 | \*14:04:01-14:04:03, 14:11, 14:28, 14:68:01-14:68:02, 14:71, 14:73, 14:93, 14:120, 14:126:01-14:126:02, 14:138, 14:145, 14:148, 14:152N, 14:175, 14:180 |
| **23** | 220 bp250 bp | \*08:43\*08:04:01, 08:04:04-08:04:07, 08:06, 08:10, 08:28, 08:31, 08:54, 08:59, 08:67, 08:70, 08:75 | \*03:92, 11:67, 12:03:02-12:03:03, 12:19, 13:17, 13:116, 13:175, 13:214, 14:04:01-14:04:03, 14:11, 14:15, 14:31, 14:50, 14:52, 14:73, 14:76, 14:79, 14:107, 14:120, 14:126:01-14:126:02, 14:138, 14:145, 14:148, 14:152N, 14:175, 14:180 |

**4**The DRB1\*08:20 and the DRB1\*14:12:01-14:12:02, 14:84, 14:156 and 14:173 give rise to identical amplification patterns with the DRB1\*08 subtyping kit. These alleles can be distinguished by e.g. the DR low resolution kit and/or the DRB1\*14 subtyping kit.

‘w’, may be weakly amplified.

Change in revision R01 compared to R00:

1. Primer mix 10 does not amplify the DRB1\*14:152N allele. This has been corrected in the Specificity and Interpretation Tables.