DQB1\*05 (101.211-24/24u) Lot No: 0R1 Expiry Date: 2026-03-01

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

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

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

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

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

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

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

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

**Gel Picture**

|  |
| --- |
| PHOTO DOCUMENT |



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 mixes 15 and 16 may have a tendency of unspecific amplification.

Primer mixes 26 and 30 may give rise to a lower yield of HLA-specific PCR product than the other DQB1\*05 primer mixes.

Primer mix 17 may have a tendency to give 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**DQB1\*05 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 DQB1\*05 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified DQB1\*05alleles  | Other amplifiedDQB1 alleles |
| **2** | 135 bp225 bp | \*05:01:01:01-05:01:45, 05:07, 05:11:01-05:12, 05:18:01-05:18:02, 05:20:01-05:20:02, 05:22, 05:25, 05:27, 05:29-05:32, 05:44-05:45, 05:48-05:49, 05:51, 05:54-05:55, 05:61-05:63, 05:68-05:76, 05:80-05:81, 05:84, 05:88-05:89:02, 05:92-05:93, 05:95, 05:99, 05:103-05:104, 05:107, 05:110N-05:112, 05:114-05:115, 05:120, 05:122, 05:124, 05:126-05:128N, 05:133, 05:137-05:139, 05:141, 05:144, 05:148, 05:150-05:152, 05:154-05:160, 05:162-05:164, 05:166-05:169, 05:171, 05:173, 05:176-05:177, 05:180, 05:182-05:185N, 05:187-05:188, 05:190, 05:193-05:195, 05:197, 05:215N-05:217, 05:219, 05:223, 05:225-05:226, 05:228, 05:230, 05:232, 05:234, 05:237, 05:240, 05:242, 05:246, 05:248-05:249, 05:252, 05:255-05:256, 05:258, 05:261, 05:263, 05:266-05:272, 05:275, 05:277, 05:279, 05:283N, 05:285-05:286, 05:288, 05:290-05:292\*05:218 | \*06:325, 06:389 |
| **5** | 120 bp 185 bp | \*05:04, 05:52, 05:77, 05:132Q, 05:146, 05:262\*05:10 | \*03:309 |
| **7** | 180 bp245 bp270 bp | \*05:06:01-05:06:02, 05:07, 05:50\*05:20:02, 05:52\*05:112 |  |
| **8** | 135 bp190 bp | \*05:27, 05:87Q, 05:132Q\*05:09, 05:29 | \*03:420 |
| **10** | 115 bp195 bp | \*05:23, 05:242\*05:12, 05:71 |  |
| **11** | 100 bp150 bp190 bp | \*05:13, 05:32, 05:42, 05:45, 05:117, 05:169, 05:201\*05:35, 05:182, 05:259\*05:96 | \*04:56\*02:64, 02:79, 03:21, 03:452, 06:243, 06:255 |
| **12** | 120 bp150 bp195 bp | \*05:25\*05:14, 05:84, 05:211\*05:41N, 05:90N, 05:96 | \*02:169, 03:319, 03:347, 04:70, 06:103, 06:284, 06:350\*02:96N |
| **13** | 145 bp180 bp220 bp | \*05:40\*05:15, 05:33, 05:49\*05:34, 05:44, 05:128N, 05:130 |  |
| **14** | 120 bp155 bp205 bp | \*05:58\*05:40, 05:69, 05:101, 05:145, 05:153\*05:16, 05:73, 05:98, 05:116 | \*06:156, 06:162, 06:169 |
| **15**  | 65 bp105 bp135 bp | \*05:03:06, 05:03:14, 05:03:20\*05:17\*05:37, 05:104 | \*03:03:05\*06:250 |
| **16** | 145 bp195 bp | \*05:20:01, 05:105\*05:47, 05:159 | \*02:99, 03:249, 03:312, 06:105, 06:185, 06:225, 06:407 |
| **17** | 125 bp200 bp | \*05:25, 05:31, 05:46, 05:108\*05:41N, 05:90N, 05:106 | \*03:317:01-03:317:02, 06:111, 06:265\*02:96N |
| **18** | 120 bp180 bp220 bp | \*05:58\*05:24\*05:72, 05:80, 05:128N | \*06:325 |
| **19** | 195 bp225 bp | \*05:28, 05:30\*05:21, 05:60 |  |
| **20** | 110 bp210 bp270 bp | \*05:32, 05:42, 05:57\*05:106\*05:38, 05:62, 05:119 | \*03:432, 04:56\*06:146:01 |
| **21** | 140 bp165 bp200 bp230 bp | \*05:37, 05:88, 05:104\*05:63\*05:39\*05:26, 05:82 | \*06:250 |
| **24** | 150 bp190 bp | \*05:71\*05:73, 05:80, 05:98, 05:116 | \*06:28, 06:56, 06:79:01-06:79:02, 06:89 |
| **25** | 115 bp180 bp | \*05:75, 05:111\*05:112 |  |
| **26**  | 85 bp185 bp | \*05:103, 05:231\*05:78 |  |
| **27** | 145 bp200 bp280 bp | \*05:88\*05:110N, 05:236N\*05:79, 05:156 | \*06:158N |
| **28** | 135 bp170 bp | \*05:56\*05:107 |  |
| **30** | 100 bp145 bp | \*05:105, 05:111\*05:51 | \*03:03:05, 06:02:19, 06:03:08, 06:09:11, 06:13:03, 06:79:02 |
| **31** | 125 bp150 bp220 bp | \*05:102\*05:67\*05:54 | \*02:157, 03:190, 04:42, 06:223, 06:406 |

 **4**The following DQB1\*05 alleles can be distinguished by the different sizes of the specific PCR product:

|  |  |  |  |
| --- | --- | --- | --- |
| Alleles | Primer mix | Alleles | Primer mix |
| DQB1\*05:12, 05:242 | 10 | DQB1\*05:27, 05:29 | 8 |
| DQB1\*05:13, 05:201, 05:259 | 11 | DQB1\*05:35, 05:117 | 11 |
| DQB1\*05:16, 05:101 | 14 | DQB1\*05:45, 05:169, 05:182 | 11 |
| DQB1\*05:20:01, 05:159 | 16 | DQB1\*05:110N, 05:156 | 27 |

Abbreviations

w: might be weakly amplified.

?: nucleotide sequence information not available for the primer matching sequence.

Changes in revision R01 compared to R00:

1. Primer mix 11 does not amplify the DQB1\*03:196, 03:442 and 06:323 alleles. This correction has been implemented in the Specificity and Interpretation tables.