Gel Documentation Form and Worksheet

DQB1\*04 (101.215-12/12u) Lot No: 2L9 Expiry Date: 2024-08-01

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 1 and 2 may give rise to a lower yield of HLA-specific PCR product than the other DQB1\*04 primer mixes.

Primer mix 1, 2 and 14 may have tendencies of unspecific amplifications.

In primer mix 7 the positive control band may be weaker than for other DQB1\*04 primer mixes.

Primer mix 21 may have a tendency for primer oligomer formation.

Primer mix 22 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**HLA-DQB1 in bold lettering are listed as confirmed alleles on the IMGT/HLA web page 2016-July-14, release 3.25.0, [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla).

**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\*04 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified DQB1\*04alleles | Amplified non-DQB1\*04alleles |
| **1** | 160 bp 205 bp | \*04:01:01:01-04:01:02, 04:01:04-04:02:01:01, 04:02:01:04-04:02:07, 04:02:09-04:02:15, 04:02:17-04:03:02, 04:04-04:29, 04:31-04:47, 04:49-04:77 \*04:01:01:01-04:01:05, 04:05-04:08, 04:14-04:17, 04:38, 04:42, 04:61-04:62, 04:69, 04:71, 04:73N-04:74 | \*03:132 |
| **5** | 110 bp245 bp | \*04:06, 04:12\*04:04-04:05 | \*03:06, 03:25:01 |
| **6** | 95 bp210 bp | \*04:16\*04:20 |  |
| **11** | 120 bp160 bp | \*04:11, 04:15\*04:23 | \*02:108, 02:144, 03:22:01-03:22:02, 03:96, 03:251, 05:226, 05:231w, 06:04:01:01w-06:05:02w, 06:06?, 06:07:01w-06:07:02w, 06:08:02?-06:08:03?, 06:09:01:01w-06:09:11w, 06:09:12?, 06:11:02?-06:11:03?, 06:12w, 06:13:02?-06:13:03?, 06:15:01?, 06:17?-06:18:01?, 06:18:02w, 06:19:01?, 06:21w, 06:22:01?-06:25?, 06:27:01?-06:27:02?, 06:29?-06:32:02?, 06:34w, 06:35?, 06:36w, 06:38w, 06:40?, 06:41w-06:42w, 06:45?, 06:50?, 06:51:02?, 06:52w, 06:53:01?-06:54N?, 06:56?-06:57?, 06:58w, 06:59?-06:61?, 06:63?-06:67?, 06:69:01?-06:76?, 06:79:02?-06:83?, 06:84w, 06:85?, 06:89?, 06:91?-06:92:01?, 06:93?-06:97?, 06:118:01w, 06:118:02?-06:124?, 06:126?, 06:128?, 06:129w, 06:131?-06:147?, 06:149?-06:153:01?, 06:154?-06:184?, 06:186w, 06:189w, 06:190:01?-06:199?, 06:201?-06:204?, 06:206:01?, 06:206:02w, 06:207?-06:208?, 06:210?-06:215?, 06:217w, 06:229?-06:236?, 06:238?, 06:241?, 06:244?, 06:246?-06:247?, 06:249?, 06:252N?, 06:254w, 06:260?, 06:261w, 06:263?, 06:265w-06:267w, 06:268?, 06:275w, 06:277?, 06:280w-06:283w, 06:287w-06:288w, 06:291w-06:292w, 06:299w, 06:301w, 06:303Nw, 06:313w, 06:318w-06:319w, 06:320?, 06:325w, 06:332w, 06:339w, 06:343w, 06:348w-06:349w, 06:351w, 06:353?, 06:358?, 06:361?, 06:368?-06:369? |
| **19** | 200 bp225 bp | \*04:01:01:01-04:02:01:01, 04:02:01:04-04:02:02, 04:02:05-04:03:03, 04:06-04:31, 04:33-04:77\*04:01:01:01-04:02:01:01, 04:02:01:04-04:02:18, 04:02:20-04:03:03, 04:06-04:21, 04:22w, 04:23, 04:24w, 04:25N-04:32, 04:34-04:37, 04:38w, 04:39-04:48, 04:50-04:77 |  |

Abbreviations

w: may be weakly amplified.

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