Gel Documentation Form and Worksheet

HLA-B\*37 (101.541-06/06u) Lot No: 6K5 Expiry Date: 2024-02-01

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

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

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

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

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

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

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

*Interpretation:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Failed lanes: \_\_\_\_\_\_\_\_\_*

*Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

**Gel Picture**

|  |
| --- |
| PHOTO DOCUMENT |





Abbrevations

‘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 21 may have tendency of unspecific amplification.

Primer mixes 23 has a tendency of giving rise to primer oligomer formation.

Primer mix 17 may give rise to a lower yield of HLA-specific PCR product than the other B\*37 primer mixes.

Primer mix 30 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**HLA-B\*37 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 3.29.0, August 2017.

**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 HLA-B\*37 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-B\*37 alleles | Other amplified HLA-B alleles |
| **2** | 95 bp  135 bp | \*37:02  \*37:28 | \*07:197, 15:342, 18:165, 27:01-27:05:15, 27:05:17-27:05:37, 27:05:39-27:05:46, 27:08, 27:10, 27:12:01:01-27:13, 27:15-27:18, 27:23, 27:25-27:26, 27:28-27:29, 27:31, 27:36-27:40, 27:42, 27:44-27:45, 27:47-27:69, 27:71-27:75, 27:77, 27:79-27:80, 27:82-27:90:04, 27:92-27:101, 27:103-27:105, 27:108-27:124, 27:126, 27:128-27:129, 27:131-27:135, 27:137, 27:139-27:149, 27:151-27:152, 27:155-27:163, 27:165-27:167, 27:169-27:179, 27:181-27:186, 27:188-27:191, 27:193-27:207, 27:209-27:217, 27:220-27:221, 40:429, 47:04-47:05, 48:26, **A\*32:89**  \*07:27, 07:236, 08:126, 08:131, 08:139, 27:03, 27:05:02:01-27:05:20, 27:05:22-27:05:46, 27:07:01-27:07:06, 27:09-27:10, 27:13-27:14, 27:16-27:17, 27:19:01:01-27:19:01:02, 27:27-27:29, 27:32, 27:34-27:35, 27:37-27:39, 27:41, 27:43, 27:45-27:48, 27:50:01-27:51, 27:54-27:56, 27:58-27:60, 27:64N, 27:70-27:74, 27:76, 27:78, 27:80-27:82, 27:84-27:85, 27:87-27:88, 27:90:01-27:90:04, 27:92-27:94N, 27:96:01-27:99, 27:101, 27:104, 27:111, 27:116-27:118, 27:121-27:124, 27:127-27:130, 27:132-27:133, 27:135-27:137, 27:139-27:141, 27:143-27:146, 27:148, 27:150-27:152, 27:155, 27:159-27:162, 27:164, 27:166-27:167, 27:169-27:170, 27:174-27:175, 27:177-27:180, 27:182, 27:184-27:187, 27:189-27:191, 27:193-27:196, 27:199-27:201, 27:205-27:207, 27:209, 27:212N, 27:215N-27:221, 38:17, 55:90 |
| **3** | 200 bp  235 bp | \*37:13  \*37:03N |  |
| **4** | 200 bp  240 bp | \*37:13  \*37:04:01-37:04:02, 37:39, 37:48 | \*15:32:01-15:32:02, 15:299, 18:18:01:01-18:18:01:02, 35:48, 35:433, 44:209, 53:07, **C\*03:90, C\*03:103, C\*03:178, C\*03:300, C\*03:474, C\*07:03, C\*07:186, C\*07:242, C\*07:265, C\*07:516, C\*07:748** |
| **7** | 130 bp  195 bp | \*37:06:01-37:06:02, 37:42N  \*37:36 | \*40:188, 44:257, 47:01:01:02-47:01:05, 47:05-47:10 |
| **9** | 80 bp  125 bp  155 bp  215 bp  495 bp | \*37:08  \*37:42N  \*37:30N  \*37:22 | \*07:27, 07:236, 08:126, 08:131, 08:139, 18:54, 27:92, 38:17, 53:03, 53:55, 55:90, **A\*68:112:02**  \*15:209N, 39:139N |
| **10** | 110 bp  145 bp  310 bp | \*37:26  \*37:14  \*37:46 |  |
| **11** | 95 bp  215 bp  355 bp | \*37:18  \*37:09  \*37:43 | \*07:04:01-07:04:02, 07:19, 07:25, 07:146, 07:349, 08:01:01:01-08:05, 08:07-08:08N, 08:10-08:11, 08:14-08:15, 08:17-08:19N, 08:21-08:24, 08:26:01-08:39, 08:41-08:48, 08:50-08:54:02, 08:56:01-08:59:02, 08:61-08:69, 08:71-08:78, 08:80-08:83, 08:85-08:88, 08:90-08:106, 08:108-08:128, 08:130-08:142, 08:144-08:155, 08:157-08:170, 08:172-08:180, 08:182-08:183, 08:185-08:204, 08:206-08:231, 08:233-08:249, 35:87, 41:02:01:01-41:02:09, 41:04, 41:10-41:11, 41:13, 41:15, 41:18-41:19,  41:23-41:24, 41:27, 41:31, 41:36, 41:38-41:43, 41:45N-41:47, 41:49, 41:51-41:52, 41:55, 41:58, 42:01:01:01-42:02:02, 42:05:01-42:12, 42:14-42:18, 42:20-42:27, 44:106, 44:158, 44:166, 44:213 |
| **14** | 110 bp  245 bp | \*37:47  \*37:11, 37:37, 37:67 | \*27:04:01-27:04:06, 27:06:01:01-27:06:01:02, 27:15, 27:20, 27:24-27:25, 27:66N, 27:68-27:69, 27:91, 27:100, 27:103, 27:105, 27:109, 27:112-27:115, 27:138, 27:147, 27:149, 27:165, 27:173, 27:192, 27:208, 27:210-27:211, 27:214  \*07:143, 08:62, 08:226, 08:242, 15:71, 15:175, 15:204, 15:210, 15:212, 15:225, 15:344, 15:381, 15:426, 18:01:01:01-18:01:12, 18:01:14-18:01:20, 18:01:22-18:03:02, 18:05:01:01-18:08, 18:10-18:15, 18:17N-18:24, 18:26-18:42, 18:44:01-18:48, 18:50-18:53, 18:55-18:66, 18:68-18:78, 18:80-18:106, 18:109-18:124, 18:126-18:131:01:02, 18:133-18:135:01:02, 18:137-18:141, 18:143-18:146, 18:148-18:189, 27:08, 27:12:01:01-27:12:01:03, 27:18, 27:26, 27:33, 27:40, 27:44, 27:153, 27:204, 35:50, 35:63, 35:84, 35:162, 35:217, 35:231, 35:280, 35:317, 35:323, 35:441, 39:31:01:01-39:31:01:02, 39:101, 39:128, 40:01:01-40:01:04, 40:01:06-40:06:14, 40:06:16-40:09, 40:11:01:01-40:11:02, 40:14:01-40:16:01:02, 40:18, 40:20:01:01-40:20:01:02, 40:22N-40:36, 40:38-40:39, 40:42-40:46, 40:48, 40:50:01:01-40:57, 40:59-40:75, 40:77-40:95, 40:97-40:108, 40:111-40:116, 40:118N-40:128, 40:130:01-40:134, 40:136, 40:138-40:156, 40:158-40:163, 40:165-40:187, 40:189-40:190, 40:192-40:200, 40:202-40:209, 40:211-40:218, 40:220-40:228, 40:230-40:255, 40:257-40:280, 40:282-40:291N, 40:293-40:305, 40:307-40:317, 40:319-40:324, 40:326-40:327, 40:329-40:334, 40:336-40:339, 40:341, 40:343, 40:345N-40:364, 40:366-40:393, 40:395-40:398, 40:400-40:422,  40:424-40:448, 41:01:01:01-41:04, 41:06-41:32, 41:34-41:45N, 41:48-41:59, 41:61-41:63, 42:02:01:01-42:02:02, 42:09, 42:17-42:18, 42:26-42:27, 44:131, 45:01:01:01-45:25, 46:14, 48:22, 48:30, 50:01:01:01-50:02:01:02, 50:04-50:12, 50:14-50:20, 50:31-50:42, 50:44-50:69, 54:02, 55:16, 56:35, 73:01:01:01-73:02, **C\*03:278, C\*03:504, C\*07:714, C\*07:724, C\*16:86** |
| **15** | 135 bp  315 bp | \*37:11, 37:37, 37:67  \*37:45 | \*07:65, 07:134, 08:32, 08:133, 08:180, 15:202, 15:239, 15:308, 15:376, 18:01:01:01-18:01:20, 18:01:22-18:08, 18:10-18:15, 18:17N-18:36, 18:38-18:47, 18:50-18:53, 18:55-18:65, 18:68-18:78, 18:80-18:106, 18:109-18:124, 18:126-18:131, 18:133-18:135, 18:137-18:139, 35:01:01:01-35:02:02, 35:02:04-35:03:02, 35:03:04-35:08:01:02, 35:08:03-35:08:04, 35:08:06-35:18, 35:20:01-35:24:02, 35:28-35:45, 35:48, 35:50-35:55, 35:57-35:62, 35:64:01-35:72, 35:74-35:153, 35:155-35:197, 35:199-35:202, 35:204-35:206, 35:208-35:209, 35:211-35:216N, 35:218-35:221, 35:223-35:253, 35:255-35:270, 35:272-35:273, 35:275-35:298, 35:300-35:310, 35:312-35:316, 35:318-35:328, 35:330-35:349, 39:19:01-39:19:02, 40:185, 40:209, 40:308, 40:350, 46:40:01-46:40:02, 56:06, 56:45, 58:64, 78:01:01:01-78:05, 78:07-78:08 |
| **16** | 170 bp  195 bp | \*37:09, 37:12, 37:35, 37:56, 37:77, 37:84  \*37:20 | \*07:04:01-07:04:02, 07:19, 07:25, 07:146, 07:349, 08:01:01:01-08:01:22, 08:01:24-08:05, 08:07-08:12:03, 08:15-08:19N, 08:21-08:24, 08:26:01-08:27, 08:29-08:39, 08:41-08:48, 08:50-08:54:02, 08:56:01-08:69, 08:71-08:73, 08:75-08:78, 08:80-08:86N, 08:88-08:110, 08:112-08:142, 08:144-08:155, 08:157-08:170, 08:172-08:199, 08:201-08:204, 08:206-08:226, 08:228-08:244, 08:246-08:249, 15:51, 15:83:01:01-15:83:01:02, 15:179:01-15:179:02, 15:199, 15:218Q, 15:518, 18:56, 18:113, 35:38, 35:87, 35:115, 35:169, 35:260, 38:30, 39:156, 40:136, 40:231, 40:279, 41:01:01:01-41:09, 41:11-41:51, 41:53-41:61, 41:63, 42:01:01:01-42:02:02, 42:04-42:18, 42:21-42:27, 44:14, 44:17, 44:51, 44:62, 44:123, 44:166, 44:213, 44:230, 45:09, 45:14, 51:08:01:01-51:08:04, 51:20, 51:36, 51:44N, 51:97, 51:141, 51:153, 51:263, 51:275, 52:19, 53:22, 55:20, 55:56, 56:13, 57:09, 57:24, 57:119, 82:01:01:01-82:03, **C\*07:626** |
| **17** | 165 bp  195 bp | \*37:25  \*37:20 | \*45:03 |
| **19** | 215 bp  315 bp | \*37:21, 37:67  \*37:45 | \*08:62, 08:242, 18:07:01-18:07:02, 18:29, 18:79, 18:136, 27:23, 35:50, 35:84, 35:162, 35:217, 35:231, 35:280, 35:323, 35:441, 40:07-40:08, 40:13, 40:68, 40:106, 40:162, 40:220, 40:232, 41:46, 42:26, 51:103, 51:116, 51:151 |
| **20** | 195 bp  230 bp | \*37:36  \*37:16Q, 37:39, 37:48 | \*15:32:01-15:32:02, 15:299, 35:48, 35:433, 44:209, 53:07, **C\*03:90, C\*03:103, C\*03:178, C\*03:300, C\*03:474, C\*07:03, C\*07:186, C\*07:242, C\*07:265, C\*07:494Q, C\*07:748** |
| **21** | 165 bp  195 bp  270 bp | \*37:27  \*37:33N  \*37:24 | \*27:57  \*27:94N  \*27:122, 40:152 |
| **23** | 90 bp  350 bp | \*37:19:01  \*37:23, 37:43 | \*14:10, 15:460, 35:59:01, 35:242, 38:20:01, 39:42, 39:106, 44:117, 44:251, **C\*03:26:02, C\*15:05:08, C\*15:140, C\*17:01:10**  \*07:329, 15:227, 18:183, 27:69, 27:192, 40:213, 44:338, 51:32, 58:52 |

**4**The following HLA-B\*37 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| **Alleles** | **Primer mix** |
| B\*37:24, 37:27 | 21 |
| B\*37:26, 37:46 | 10 |

Abbreviations

‘w’, may be weakly amplified.