HLA-B\*50 (101.548-06/06u) Lot No: 6R3 Expiry Date: 2027-02-01

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

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

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

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

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

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

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

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

**Gel Picture**

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| --- |
| 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 mix 3 has a tendency of giving rise to primer oligomer formation.

Primer mix 6 may give rise to a lower yield of HLA-specific PCR product than the other B\*50 primer mixes.

Primer mixes 9 and 16 may have tendency of unspecific amplification.

Primer mix 24 contains a negative control, which will amplify a 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 products generated by the HGH positive control primer pair is 200 base pairs.











**1**HLA-B\*50 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\*50 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-B\*50 alleles | Other amplified HLA Class I alleles |
| **8** | 135 bp  365 bp  540 bp | \*50:05  \*50:17  \*50:17 | \*40:500  \*13:01:01:01-13:01:14, 13:01:16-13:01:21, 13:06, 13:12:01-13:13:02, 13:17, 13:20-13:23, 13:25-13:26:02, 13:28-13:29, 13:39, 13:43, 13:50-13:52, 13:57, 13:60-13:61, 13:63N, 13:73, 13:77-13:78, 13:80, 13:83, 13:86-13:87, 13:90, 13:92, 13:95, 13:106-13:107, 13:109-13:110, 13:122, 13:129, 13:135, 13:138, 13:141-13:142, 13:144, 13:146, 13:148, 13:161N-13:163, 13:168, 13:170-13:171, 13:173, 15:20, 15:25:01:01-15:25:04, 15:36, 15:62, 15:77, 15:85, 15:106, 15:154, 15:204, 15:240, 15:250, 15:271, 15:289, 15:366, 15:393, 15:402, 15:407, 15:458, 15:463N, 15:468, 15:543-15:544N, 15:564, 15:566, 15:584N, 15:587, 15:589, 15:599, 15:625, 15:645, 35:28:01:01-35:28:01:03, 35:63, 35:361, 37:19:01-37:19:02, 37:50w, 40:04:01:01-40:04:02, 40:28, 40:59, 40:64:01:01-40:64:02, 40:120, 40:129, 40:137, 40:160:01-40:160:02, 40:343, 40:458, 41:48, 44:02:01:01-44:02:21, 44:02:23, 44:02:25-44:02:33, 44:02:35-44:02:64, 44:02:66-44:03:04, 44:03:06-44:03:14, 44:03:16-44:03:35, 44:03:37-44:03:44, 44:03:46-44:05:06, 44:07-44:09, 44:10w, 44:11, 44:14, 44:16-44:17, 44:19N, 44:21-44:30, 44:32-44:40, 44:42-44:46:02, 44:48-44:53:02, 44:55, 44:57-44:64:02, 44:66, 44:68, 44:71-44:81, 44:83-44:89, 44:91-44:95, 44:98, 44:101-44:105, 44:107-44:109, 44:111-44:112, 44:114-44:134, 44:136-44:137, 44:139-44:148, 44:150-44:152, 44:154-44:157, 44:159-44:165, 44:167-44:170, 44:172-44:183, 44:185-44:196, 44:198N-44:208, 44:209w, 44:210:01-44:210:02, 44:212, 44:214-44:229, 44:231, 44:233-44:235, 44:237N-44:245:02, 44:247-44:258, 44:260-44:262, 44:265-44:290, 44:292-44:316, 44:318-44:331, 44:333N-44:338, 44:340-44:354N, 44:357-44:363, 44:437-44:439, 44:441-44:443, 44:445-44:458, 44:460-44:524, 44:526-44:537, 44:539-44:542, 44:544N-44:546, 48:02:01-48:02:03, 48:17, 48:25, 49:61, 51:310, 52:88, 53:17:01-53:17:02, 53:28, 53:38  \*13:23, 15:204, 18:105, 18:149, 18:150w, 27:19:01:01-27:19:01:02, 27:30, 27:127, 35:50, 35:63, 35:84, 35:162, 35:217, 35:231, 35:280, 35:323:01-35:323:02, 35:441, 37:19:01-37:19:02, 37:50w, 40:04:01:01-40:04:02, 40:28, 40:59, 40:64:01:01-40:64:02, 40:68, 40:120, 40:160:01-40:160:02, 40:343, 40:458, 41:48, 44:55, 44:103, 44:131, 44:188, 44:212, 49:61, 58:41, **C\*03:278, C\*03:504** |
| **9** | 105 bp  150 bp | \*50:12  \*50:06, 50:46 | \*40:208, 40:436 |
| **11** | 105 bp  280 bp | \*50:16  \*50:08 | \*54:28, 56:73 |
| **12** | 140 bp  180 bp | \*50:18-50:19  \*50:09 | \*15:489, 35:264, 44:186:01-44:186:02, 44:296, 51:107, **C\*03:110, C\*03:419**  \*14:19, 14:27, 15:137, 15:488, 35:261, 35:547, 37:39, 37:48, 37:97, 45:02, 49:50, 51:172, 53:07, **C\*03:250, C\*03:267, C\*03:559, C\*04:08, C\*04:34, C\*04:147, C\*04:212, C\*05:27, C\*05:39, C\*05:151, C\*05:184, C\*08:41, C\*08:115, C\*08:138, C\*08:182, C\*17:07, C\*18:08** |
| **14** | 225 bp  300 bp | \*50:76  \*50:11 | \*51:55  \*39:90 |
| **16** | 95 bp  160 bp  580 bp | \*50:01:21, 50:14  \*50:15  \*50:01:21, 50:14 | \*35:01:10, 35:03:32, 35:04:02, 40:28, 49:18:01, 51:56:01-51:56:03, 51:158:02, 51:372, 53:28, 55:01:04, 55:02:11, 55:28:02, **C\*02:02:23, C\*12:03:31, C\*15:02:53**  \*07:177w, 08:102, 08:122, 13:36, 14:48, 15:345, 18:80, 18:102, 18:107, 27:23, 27:92, 27:157w, 27:242, 35:84, 35:90, 35:150:01-35:150:02, 35:184, 35:201, 35:217, 35:441, 38:16, 38:46, 40:08:01:01-40:08:01:02, 40:25, 40:68, 40:106, 40:166w, 40:232, 40:313, 44:12, 44:232, 44:263, 44:356w, 45:22, 49:26, 49:63, 49:67, 51:103, 51:119, 56:36w, 73:01:01:01w-73:03w  \*13:62, 27:04:03, 27:153, 40:01:06, 40:06:30, 40:26, 40:28, 40:95, 41:02:09, 44:03:40, 44:62, 44:459, 49:18:01, 51:103, 51:119, 52:83 |

**4**The following alleles will give rise to identical amplification patterns. These alleles can be distinguished by the HLA-B low resolution kit and/or the respective high-resolution kits.

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| **Alleles** |
| B\*50:75, B\*49:01:01:01-49:01:01:18, 49:01:03-49:03, 49:06, 49:08-49:09, 49:12-49:14, 49:16-49:17, 49:19N, 49:21-49:23, 49:25, 49:27-49:30, 49:32-49:36, 49:38-49:40, 49:43-49:44, 49:46, 49:48-49:49, 49:51-49:60N, 49:62, 49:64-49:66, 49:68-49:75, 49:78, B\*59:12 |

Abbreviations

‘w’, may be weakly amplified.