Gel Documentation Form and Worksheet

HLA-B\*50 (101.548-06/06u) Lot No: 7F3 Expiry Date: 2021-10-01

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 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 mix 9 may have tendency of unspecific amplification.

Primer mix 24 contains a negative control, which will amplify more than 95% 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 430 base pairs.

Changes in revision R01 compared to R00:

1. The expiration date has been altered due to extension of shelf-life.







**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 bp365 bp540 bp | \*50:05\*50:17\*50:17 | \*13:01:01:01-13:01:12, 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, 15:20, 15:25:01-15:25:03, 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, 35:28, 35:63, 37:19:01-37:19:02, 37:50, 40:04, 40:28, 40:59, 40:64, 40:120, 40:129, 40:137, 40:160:01-40:160:02, 40:343, 41:48, 44:02:01:01-44:02:21, 44:02:23, 44:02:25-44:02:33, 44:02:35-44:03:04, 44:03:06-44:03:14, 44:03:16-44:03:35, 44:03:37-44:05:04, 44:07-44:11, 44:14, 44:16-44:17, 44:19N, 44:21-44:30, 44:32-44:40, 44:42-44:46, 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-44:210, 44:212, 44:214-44:229, 44:231, 44:233-44:235, 44:237N-44:245, 44:247-44:258, 44:260-44:262, 44:265-44:271, 48:02:01-48:02:03, 48:17, 48:25, 53:17:01-53:17:02, 53:28, 53:38\*13:23, 15:204, 18:105, 27:19, 27:30, 27:127, 35:50, 35:63, 35:84, 35:162, 35:217, 35:231, 35:280, 35:323, 37:19:01-37:19:02, 37:50, 40:04, 40:28, 40:59, 40:64, 40:68, 40:120, 40:160:01-40:160:02, 40:343, 41:48, 44:55, 44:103, 44:131, 44:188, 44:212, 58:41, **C\*03:278** |
| **9** | 105 bp150 bp | \*50:12\*50:06, 50:46  | \*40:208 |
| **10** | 90 bp | \*50:07 | \*40:83, 40:170, 41:41, 44:07, 44:194, 49:42 |
| **11** | 105 bp280 bp | \*50:16\*50:08  | \*54:28 |
| **12** | 140 bp 180 bp | \*50:18-50:19\*50:09  | \*35:264, 44:186, 51:107, **C\*03:110**\*14:19, 14:27, 15:137, 35:261, 37:39, 37:48, 45:02, 51:172, 53:07, **C\*03:250, C\*03:267, C\*04:08, C\*04:34, C\*04:147, C\*04:212, C\*05:27, C\*05:39, C\*05:151, C\*08:41, C\*08:115, C\*08:138, C\*17:07, C\*18:08** |
| **16** | 95 bp 160 bp580 bp | \*50:14\*50:15\*50:14  | \*35:01:10, 35:04:02, 40:28, 49:18:01, 51:56:01-51:56:03, 51:158:02, 53:28, 55:01:04, **C\*02:02:23, C\*12:03:31**\*07:177w, 08:102, 08:122, 13:36, 14:48, 15:345, 18:80, 18:102, 18:107, 27:23, 27:92, 27:157, 35:84, 35:90, 35:150:01-35:150:02, 35:184, 35:201, 35:217, 38:16, 38:46, 40:08, 40:25, 40:68, 40:106, 40:166w, 40:232, 40:313, 44:12, 44:232, 44:263, 49:26, 51:103, 51:119, 56:36w, 73:01w-73:02w13:62, 27:04:03, 27:153, 40:01:06, 40:26, 40:28, 40:95, 44:03:40, 44:62, 49:18:01, 51:103, 51:119 |

‘w’, may be weakly amplified.