Gel Documentation Form and Worksheet

HLA-B\*57:01 (101.572-12/12u) Lot No: 5E0 Expiry Date: 2019-05-01

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 2 may give rise to a lower yield of HLA-specific PCR product than the other B\*57:01 primer mixes.

Primer mix 23 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.





**1**HLA-B alleles listed 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**Primer mix 3: Specific PCR fragment of 95 bp in the B\*57:04:01-57:04:02 and 57:32 and the B\*44:153 alleles. Specific PCR fragment of 170 bp in the B\*57:06 and B\*57:18 alleles. Specific PCR fragment of 215 bp in the B\*57:27 allele.

Primer mix 5: Specific PCR fragment of 90 bp in the B\*57:16 and 57:34 and the B\*58:54 alleles. Specific PCR fragment of 165 bp in the B\*57:23 allele. Specific PCR fragment of 200 bp in the B\*57:46 and 57:64 alleles. Specific PCR fragment of 245 bp in the B\*57:07 and 57:26 and the B\*44:153 and 55:14 and in the C\*06:72 alleles.

Primer mix 6: Specific PCR fragment of 90 bp in the B\*57:02:01-57:03:02, 57:07, 57:09, 57:12, 57:17, 57:39, 57:42, 57:46, 57:57, 57:63, 57:66, 57:70, 57:80 and the B\*40:30 and 40:34 alleles. Specific PCR fragment of 205 bp in the B\*57:08 and 57:65 alleles.

Primer mix 7: Specific PCR fragment of 100 bp in the B\*57:53 allele. Specific PCR fragment of 140 bp in the B\*57:31 and in the C\*06:72 alleles. Specific PCR fragment of 185 bp in the B\*57:50 allele. Specific PCR fragment of 215 bp in the B\*57:09 and 57:24 alleles. Specific PCR fragment of 250 bp in the B\*57:14:01-57:14:02 and 57:25 alleles. Specific PCR fragment of 140 bp and 250 bp in the B\*57:13 and in the B\*07:227, 40:30 and 40:34 alleles.

Primer mix 9: Specific PCR fragment of 110 bp in the B\*57:33 allele. Specific PCR fragment of 150 bp in the B\*57:21, 57:40 and 57:74 and the B\*14:20, 35:127, 51:186 and 53:41 alleles.

Primer mix 10: Specific PCR fragment of 205 bp in the B\*57:13, 57:22, 57:57 and 57:63 and the B\*07:227 and 55:14 and in the C\*06:72w alleles. Specific PCR fragment of 240 bp in the B\*57:43 allele.

Primer mix 12: Specific PCR fragment of 75 bp in the B\*57:35 allele. Specific PCR fragment of 140 bp in the B\*57:08 and 57:60 and the B\*15:87 alleles.

Primer mix 13: Specific PCR fragment of 105 bp in the B\*57:45, 57:51, 57:69 and 57:71 and in the A\*02:285 alleles. Specific PCR fragment of 155 bp in the B\*57:58 and 57:80 and the B\*07:219, 58:12 and in the A\*02:42 and A\*02:310 alleles. Specific PCR fragment of 200 bp in the B\*57:49 allele.

Primer mix 14: Specific PCR fragment of 100 bp in the B\*57:59 and the B\*15:116, 15:352, 40:63, 40:92, 40:324, 44:169, 44:182 and 46:43 and in the C\*03:129, C\*03:234 and C\*17:07. Specific PCR fragment of 125 bp in the B\*57:47 and 57:54 and the B\*15:33, 15:248, 49:22 and 51:126 and in the C\*03:87:01-03:87:02, C\*05:27, 05:39 and C\*08:115 alleles. Specific PCR fragment of 205 bp in the B\*57:77 and the 44:36 and in the C\*03:232 alleles.

Primer mix 15: Specific PCR fragment of 145 bp in the B\*57:56 and 57:78 and B\*15:340, 35:300, 40:218, 46:28 and 51:58 alleles. Specific PCR fragment of 185 bp in the B\*57:48 and in the A\*23:72 and A\*33:12 alleles. Specific PCR fragment of 295 bp in the B\*57:55 allele.

Primer mix 17: Specific PCR fragment of 90 bp in the B\*57:04:01-57:04:02 and 57:41 and the B\*44:153 and in the C\*06:72 alleles. Specific PCR fragment of 180 bp in the B\*57:68 allele.

Primer mix 18: Specific PCR fragment of 170 bp in the B\*57:37 and 57:79N alleles. Specific PCR fragment of 275 bp in the B\*57:81 and B\*44:13, 44:67 and 51:170 alleles.

Primer mix 19: Specific PCR fragment of 100 bp in the B\*57:76 allele. Specific PCR fragment of 215 bp in the B\*57:72 allele.

Primer mix 21: Specific PCR fragment of 100 bp in the B\*57:36 allele. Specific PCR fragment of 135 bp in the B\*57:38 allele.

The HLA-B\*57:01 typing kit cannot distinguish the silent mutations in the B\*57:01:01 to B\*57:01:22 alleles.

‘w’, might be weakly amplified.

Change in revision R01 compared to R00:

1. Primer mix 4 does not amplify the B\*07:120 and the B\*40:150 alleles. This has been corrected in the Specificity and Interpretation Tables.