Gel Documentation Form and Worksheet

HLA-B\*54 (101.569-06/06u) Lot No: 7E8 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 3 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B\*54 primer mixes.

Primer mix 4 may have tendency of unspecific amplification.

Primer mix 22 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\*54 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), release 3.25.0, July 2016.

**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 6: Specific PCR fragment of 105 bp in the B\*54:04, 54:11 and 54:15 and the B\*07:84, 08:09, 08:84, 13:35, 13:59, 13:62, 15:83, 27:14, 27:81, 27:130, 27:153, 35:273, 40:06:01:01-40:06:08, 40:06:10-40:06:15, 40:44, 40:53, 40:70:01-40:70:02, 40:75, 40:83, 40:93, 40:95-40:96, 40:103, 40:109-40:110, 40:127, 40:131, 40:148, 40:161-40:162, 40:165, 40:167, 40:177, 40:190, 40:230, 40:244, 40:256N, 40:268-40:270, 40:275, 40:294-40:295, 40:298, 40:306-40:307, 40:311, 40:313, 40:317-40:318, 41:01:01-41:01:04, 41:05-41:07, 41:09, 41:12, 41:14, 41:16-41:17, 41:20-41:22, 41:25-41:26, 41:28-41:29, 41:32-41:35, 41:37, 42:04, 44:20, 44:47, 44:100, 44:197, 49:18:01-49:18:02, 50:14, 50:20, 51:01:01:01-51:01:47, 51:01:49-51:03, 51:05, 51:07:01-51:12, 51:14, 51:16-51:24:05, 51:26-51:34, 51:36, 51:38-51:41N, 51:43-51:44N, 51:48-51:55, 51:57-51:58, 51:60-51:61:02, 51:65-51:80, 51:82-51:91, 51:93-51:96, 51:98N, 51:100-51:105, 51:107-51:130, 51:132, 51:134, 51:136-51:138, 51:140-51:147, 51:149N-51:156, 51:158:01-51:171, 51:173Q-51:193, 51:195-51:208, 52:01:01:01-52:13, 52:15-52:24, 52:26-52:38, 52:40-52:61, 55:17, 55:20, 55:27-55:28, 56:05:01-56:06, 56:15, 56:21, 58:08:01-58:08:02, 59:02 and 78:01:01-78:09 alleles. Specific PCR fragment of 235 bp in the B\*54:08N allele.

Primer mix 16: Specific PCR fragment of 210 bp in the B\*54:18 allele. Specific PCR fragment of 340 bp in the B\*54:17 allele.

**4**The following HLA-B\*54 alleles can be distinguished by the different sizes of the specific PCR product:

|  |  |
| --- | --- |
| **Alleles** | **Primer mix** |
| B\*54:17, B\*54:18 | 16 |

The HLA-B\*54 subtyping kit cannot distinguish the following silent mutations: the B\*54:01:01 and B\*54:01:03-54:01:07 alleles.

‘w’, may be weakly amplified.

‘?’, nucleotide sequence of the primer matching region not known.