Gel Documentation Form and Worksheet

HLA-B\*81 (101.553-06/06u) Lot: 9H3 Expiry Date: 2021-11-01

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 mixes 3 and 5 may have tendency of unspecific amplification.

Primer mix 3 may have ten may have a tendency of giving rise to primer oligomer formation.

Primer mix 10 contains a negative control, which will amplify the 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 product generated by the HGH positive control primer pair is 430 base pairs.



**1**HLA-B\*81 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 3.35.0, January 2019.

**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\*81 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-B\*81 alleles | Other amplified HLA Class I alleles |
| **5** | 105 bp165 bp | \*81:05\*81:03 | \*07:83\*15:20, 15:228, 15:305, 15:435, 35:01:01:01-35:01:27, 35:01:29-35:01:46, 35:01:48-35:30, 35:32:01-35:34, 35:36-35:42:02, 35:45, 35:47-35:56, 35:58-35:59:02, 35:61:01-35:72, 35:74-35:78, 35:80-35:86, 35:88-35:134N, 35:136-35:184, 35:186-35:208:01, 35:209-35:278, 35:280-35:358, 35:360-35:413, 37:80, 48:02:01-48:02:03, 51:01:01:01-51:01:55, 51:01:57-51:24:05, 51:26-51:41N, 51:43-51:46, 51:48-51:156, 51:158:01-51:163, 51:165-51:219, 51:221-51:236, 51:238-51:267, 52:01:01:01-52:06:03, 52:08-52:84, 53:01:01:01-53:53, 56:05:01-56:05:02, 56:21, 56:36, 58:01:01:01-58:01:21, 58:01:23-58:02:02, 58:04-58:10N, 58:12-58:19, 58:21-58:29, 58:31N-58:100, 67:05, 78:01:01:01, 78:01:02-78:10 |
| **6** | 80 bp105 bp | \*81:04N\*81:05 | \*07:83 |

**4**The B**\***81:02 and the B\*07:202 and B\*07:279 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-B low resolution kit and/or HLA-B\*07 high resolution kit.

Abbreviations

‘w’, may be weakly amplified.

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