HLA-B low resolution

(101.501-48/12, -48u/12u) Lot No: 7R6 Expiry Date: 2027-04-01

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

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

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

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

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

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

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

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

**Gel Picture**

|  |
| --- |
| 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 4 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes regarding the B\*40, B\*41, B\*45, B\*49 and B\*50 alleles.

Primer mixes 4, 5, 39, 43, 45 and 58 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes.

Primer mixes 1, 14, 19, 20, 26, 45 and 58 have tendencies of giving rise to primer oligomer formation.

Primer mixes 4, 13, 18, 31, 35, 38, 42, 46, 55, 58 and 61 may have tendencies of unspecific amplifications.

Primer mix 25 might faintly amplified the C\*17 alleles.

Primer mixes 32 and 43 may generate a false positive band of about 800 base pairs. This band should be disregarded when interpreting HLA-B low resolution typings.

The Bw4-associated HLA-A specificities A9, A23, A24, A2403, A25 and A32 are not amplified by the primer pair in primer mix 46.

Primer mix 39 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes in the B\*54 alleles.

In primer mix 56 the specific PCR product of 550 base pairs may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low primer mixes. Optimized gel electrophoresis run time may need to be considered to ensure separation from the control band.

Primer mix 64 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 200 base pairs.































































**1**HLA-B alleles listed on the IMGT/HLA web page 2023-January-12, release 3.51.0, [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**The serological reactivity of all HLA-B alleles is not known. In this table we use the information in the HLA Dictionary 2004 on the www.ebi.ac.uk/imgt/hla web site and the expert-assigned serological grouping in Tissue Antigens (2009) **73**:95-170.

**4**The following alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

|  |  |
| --- | --- |
| Alleles | Alleles |
| B\*08:26:01-08:26:02, 08:50, 08:62, 08:85, 08:94, 08:242, 08:263, 08:265, 08:272, 08:299, 42:26 | B\*57:67:01, B\*58:36 |
| B\*40:496, B\*41:62 | B\*57:128, B\*58:100 |
| B\*55:134, B\*56:01:01:01-56:01:03, 56:01:06-56:01:12, 56:01:14-56:01:18, 56:08, 56:16, 56:24, 56:26-56:30, 56:34-56:35, 56:38N, 56:40-56:41, 56:47-56:49, 56:52-56:53, 56:55:01:02, 56:58-56:59, 56:61-56:62, 56:64, 56:69-56:73, 56:75-56:79, 56:81-56:87, 56:90 |  |

Abbreviations

w: might be weakly amplified.

?: nucleotide sequence information not available for the primer matching sequence.