Gel Documentation Form and Worksheet

HLA-C low resolution screening Lot No: 1K9 Expiry Date: 2023-09-01

(101.603-24/12,-24u/12u)

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 2 will give rise to two specific PCR fragments for most C\*02 alleles.

Primer mix 4 will give rise to two specific PCR fragments for most C\*03 alleles.

Primer mix 9 will give rise to two specific PCR fragments for most C\*07 alleles.

Primer mix 10 will give rise to multiple specific PCR fragments for most C\*08 alleles.

Primer mix 17 will give rise to two specific PCR fragments for most C\*15 alleles.

Primer mixes 12 and 23 may have tendencies of unspecific amplifications.

Primer mixes 2, 4, 16 and 18 have a tendency to giving rise to primer oligomer formation.

Primer mixes 3, 6, 10 and 16 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C low Screening primer mixes.

Primer mix 14 might faintly amplify most C\*01 and the C\*14 alleles.

Primer mix 24 contains a negative control, which will amplify a 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 products generated by the HGH positive control primer pair are 200 and 430 base pairs.





















**1**HLA-C alleles listed on the IMGT/HLA web page 2019-April-17, release 3.36.0, [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 following alleles give rise to identical amplification patterns with the HLA-C low screening resolution primer set. These alleles can be separated by the respective high resolution primer sets.

|  |  |
| --- | --- |
| Alleles | Alleles |
| C\*01:125, 14:58 | C\*12:02:14-12:02:15, 12:02:19, 12:18:02, 12:222, 12:224, B\*67:02 |
| C\*01:156, B\*07:239, B\*14:03 | C\*12:02:29, 12:49, 12:123, B\*57:01:24 |
| C\*01:169:02, 03:94 | C\*12:03:34:01-12:03:34:02, B\*15:510 |
| C\*03:02:10, 03:264, B\*44:274 | C\*14:02:32, C\*14:06, C\*14:08-14:09, C\*14:28:01-14:28:02, C\*14:53, C\*14:63, C\*14:105Q, A\*29:86, A\*30:62, A\*33:63, B\*18:64, B\*35:183, B\*35:252, B\*39:114, B\*39:140, B\*40:138, B\*41:59 |
| C\*05:206, 17:05 |

Abbvreviations

‘w’, might be weakly amplified.

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