Gel Documentation Form and Worksheet

HLA-C low resolution Lot No: 3F9 Expiry Date: 2020-02-01

(101.601-24/12, -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 |



‘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.

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

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

Primer mix 7 will for most C\*05 alleles give rise to two specific PCR fragments.

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

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

Primer mix 12 will for most C\*12 alleles give rise to two specific PCR fragments.

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

Primer mix 25 will for most C\*04 alleles give rise to two specific PCR fragments.

HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

Primer mixes 11, 13 and 19 may have tendencies of unspecific amplifications, most pronounced is primer mix 19.

Primer mixes 2, 3, 15, 16, 18, 20, 22, 25, 28 and 30 have a tendency to giving rise to primer oligomer formation.

Primer mixes 3, 6, 10, 11 and 18 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C low primer mixes.

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

Primer mixes 19 and 22 might generate a false band of about 500 base pairs. This band should be disregarded when interpreting HLA-C low resolution typings.

Primer mix 32 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-C alleles listed on the IMGT/HLA web page 2016-October-14, release 3.26.0, [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 C\*14:06, 14:09, 14:28:01-14:28:02 and 14:63 and the A\*30:62, B\*35:252 and B\*39:114 alleles give rise to identical amplification patterns with the HLA-C low resolution primer set. These alleles are separated by the HLA-A low primer set and respective by the HLA-B low primer set.

‘w’, might be weakly amplified.

‘?’, nucleotide sequence information not available for the primer matching sequence.