Gel Documentation Form and Worksheet

KIR Genotyping (104.101-12/12u) Lot No: 3K9 Expiry Date: 2023-10-01

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.

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

The specific PCR product generated by primer mixes 6 and 7 are longer than the internal positive control band and the positive control band may be weaker than for other KIR primer mixes.

Primer mixes 5, 7 and 27 have a tendency to giving rise to primer oligomer formation.

Primer mixes 2, 3, 7, 13 and 24 may have tendencies of unspecific amplifications.

Primer mix 7 may give rise to a pronounced lower yield of specific PCR product than the other KIR primer mixes.

Well 27 contains negative control primer pairs, that will produce exon 4 and/or exon 5 amplicons for more than 97% of applicable KIR alleles as well as amplicons generated by positive control primer pairs.



**1**KIR alleles listed on the IPD KIR web page 2018-November-30, release 2.8.0, [www.ebi.ac.uk/ipd/kir](http://www.ebi.ac.uk/ipd/kir).

**2**Alleles that have been deleted from or renamed up to and including the IPD-KIR database release can be retrieved from web page <https://www.ebi.ac.uk/cgi-bin/ipd/kir/deleted.cgi>.

**3**The following KIR Genotyping primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | KIR Gene | Amplified KIRalleles |
| **2** | 65 bp  150 bp  225 bp | 2DL2  2DL2  2DL2 | 004, 011  0010101-015  004, 011 |
| **3** | 130 bp  520 bp | 2DL3  2DL3 | 0010101-0020103w, 004-015w, 017-035w  0010101-011, 013-026, 028-035 |
| **22** | 95 bp  235 bp | 2DS1  3DP1 | 0020101-009  001-002, 004, 007, 0090101-00902, 011-012 |

Abbreviations

‘w’, might be weakly amplified.

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

Changes in revision R01 compared to R00:

1. Primer mix 26 amplifies the following alleles: 2DS5\*001?, 2DS5\*0020101-0020104, 2DS5\*003?-00502?, 2DS5\*00801?-009?, 2DS5\*011?-017?. The corrections above have been implemented to the specificity and interpretation tables.

Changes in revision R02 compared to R01:

1. The sizes of the specific PCR products in wells 3, 5, 8 and 10 have been corrected.

Changes in revision R03 compared to R02:

1. The footnote referring to a lower yield of specific PCR product in primer mix 7 was modified.

Changes in R04 compared to R03:

1. Primer mix 14 amplifies the 3DS1\*078 allele. The correction has been implemented in the specificity and interpretation tables.