Gel Documentation Form and Worksheet

KIR Genotyping (104.101-12/12u) Lot No: 9F1 Expiry Date: 2020-08-01

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

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

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

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

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

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

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

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

**Gel Picture**

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| --- |
| 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.

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 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 2017-July-14, release 2.7.0, www.ebi.ac.uk/ipd/kir.

**2**The 2DL2\*004 and 2DL2\*011 and the 2DL2\*0010101-010 and 012-013 alleles may be distinguished by the different sizes of the specific PCR product in primer mix 2; three specific PCR fragments of 65, 150 and 225 bp in the 2DL2\*004 and 2DL2\*011 alleles and one specific PCR fragment of 150 bp in the 2DL2\*0010101-00304, 005-010 and 012-013 alleles.

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**3**The 2DL3\*01201-01202 and the 2DL3\*0010101-011 and 013-026 and 028-032 alleles may be distinguished by the different sizes of the specific PCR product in primer mix 3; one specific PCR fragments of 90 bp in the 2DL3\*01201-01202 alleles and one specific PCR fragment of 520 bp in the 2DL3\*0010101-011, 013-026 and 028-034 alleles.

**4**The 2DS1 and the 3DP1 amplicons in primer mix 22 may be distinguished by the different sizes of the specific PCR product; a specific PCR fragment of 95 bp for the 2DS1\*0020101-009 alleles and a specific PCR fragment of 235 bp for the 3DP1\*001-002, 004, 007, 0090101-00902 and 011-012 alleles.

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

Changes in revision R01 compared to R00:

1. The Specificity and Interpretation Tables have been updated for new alleles in IPD-KIR database 2.7.0.

2. Typing errors in the Specificity Table and the Cell Line Validation sheet have been corrected.

Changes in revision R02 compared to R01:

1. Primer mix 26 amplifies the following alleles: 2DS5\*001?, 2DS5\*0020101-0020104, 2DS5\*003?-00502?, 2DS5\*00801?-009? and 2DS5\*011?-016?. The corrections above have been implemented to the specificity and interpretation tables.