Gel Documentation Form and Worksheet

HLA-C\*14 Lot No: 7K9 Expiry Date: 2024-03-01

(101.625-06/06u)

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 mixes 2, 15, 22, 24, 28 and 29 may have tendencies of unspecific amplification.

Primer mix 26 may have a tendency of primer oligomer formation.

Primer mix 26 may give rise to a lower yield of HLA-specific PCR product than the other HLA-C\*14 primer mixes.

Primer mix 32 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-C\*14 alleles in bold lettering are listed as confirmed alleles on the IMGT/HLA web page [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), release 3.27.0, January 2017.

**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 HLA-C\*14 primer mixes have two or more product sizes:

|  |  |  |  |
| --- | --- | --- | --- |
| Primer Mix | Size of spec. PCR product | Amplified HLA-C\*14 alleles | Other amplified HLA Class I alleles |
| **10** | 100 bp 145 bp210 bp | \*14:21N\*14:47:01N\*14:06, 14:15, 14:53, 14:77, 14:87 | \*03:271 |
| **12** | 225 bp 320 bp | \*14:08\*14:23, 14:86 | \*04:386, **B\*07:380**\*02:106, 03:378, 03:441, 04:295, 15:163 |
| **13** | 125 bp 285 bp | \*14:14\*14:10, 14:46:01-14:46:02 | \*04:302, **A\*24:225:02****\***03:231, 04:27, 04:52, 04:55, 04:405, **A\*23:101**, **A\*24:248, A\*24:252N** |
| **14** | 200 bp 290 bp | \*14:15, 14:87\*14:11 |  |
| **17** | 150 bp 210 bp | \*14:22, 14:27, 14:47:01N\*14:16 | \*02:17, 06:142, 12:156 |
| **18** | 95 bp180 bp | \*14:26, 14:81\*14:17, 14:48 | \*04:263 |
| **19** | 85 bp180 bp | \*14:18\*14:29, 14:48 | \*01:177, 04:140, 04:166:01-04:166:02, 07:402, **A\*30:96, A\*30:124** |
| **20** | 105 bp 140 bp | \*14:19\*14:28:01, 14:35N | \*03:88, 03:410, 04:261 |
| **21** | 125 bp 230 bp | \*14:32\*14:20 | \*03:271 |
| **22**  | 95 bp 250 bp | \*14:24:01-14:24:02\*14:31 | \*03:23, 04:202\*12:209 |
| **23** | 125 bp 230 bp | \*14:32\*14:25 | \*02:17 |
| **25** | 95 bp270 bp | \*14:55, 14:79, 14:81\*14:44 | \*01:114:01-01:114:02 |
| **30** | 95 bp215 bp | \*14:66\*14:93N | \*12:70\*12:104N |

**4**The following HLA-C\*14 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |
| --- | --- |
| Alleles | Primer mix |
| C\*14:14, 14:46:01-14:46:02 | 13 |
| C\*14:24:01-14:24:02, 14:31 | 22 |
| C\*14:44, 14:55 | 25 |
| C\*14:66, 14:93N | 30 |

Abbreviations

w: may be weakly amplified.