Gel Documentation Form and Worksheet

HLA-C\*07 (101.615-24/04, -24u/04u) Lot No: 7E6 Expiry Date: 2019-09-01

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.

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

Primer mixes 19, 20, 34, 36, 43, 44, 46, 47, 59 and 82 have a tendency to giving rise to primer oligomer formation.

Primer mixes 13, 14, 17, 20, 23, 24, 30, 37, 40, 45, 65, 66, 70, 74, 77, 85 and 91 may have tendencies of unspecific amplifications.

Primer mixes 14, 15 and 16 may give rise to a lower yield of HLA-specific PCR product than the other C\*07 primer mixes.

Primer mix 94 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\*07 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 3.26.0, October 2016.

**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**Primer mix 1: Specific PCR fragment of 245 bp in the C\*07:01:41, 07:02:41, 07:07, 07:09, 07:49, 07:76:01-07:76:02, 07:78:02, 07:115, 07:210, 07:223, 07:238, 07:247, 07:315, 07:328, 07:357, 07:361, 07:377, 07:403, 07:406 and 07:415 and the C\*12:181 alleles. Specific PCR fragment of 425 bp in the C\*07:02:21, 07:41, 07:166 and 07:348 alleles. Specific PCR fragment of 245 bp and 425 bp in the C\*07:01:01:01-07:02:20, 07:02:22-07:02:40, 07:02:42-07:06, 07:08, 07:10-07:33N, 07:35-07:40, 07:42-07:48, 07:50-07:75, 07:77-07:78:01, 07:79-07:114, 07:116-07:165, 07:167-07:209, 07:211-07:222, 07:224-07:237, 07:239-07:246:02, 07:248-07:294, 07:296-07:314:03, 07:316-07:327, 07:329N-07:347N, 07:349-07:356, 07:358-07:360, 07:362-07:376, 07:378-07:402, 07:404-07:405, 07:407-07:414, 07:416-07:542 and 07:544-07:563 alleles.

Primer mix 5: Specific PCR fragment of 70 bp in the C\*07:53 and 07:216 alleles. Specific PCR fragment of 145 bp in the C\*07:57 allele. Specific PCR fragment of 245 bp in the C\*07:03 allele.

Primer mix 8: Specific PCR fragment of 285 bp in the C\*07:45 and the C\*02:57, 04:40, 04:242 and 06:123 and in the B\*38:23 and B\*39:73 alleles. Specific PCR fragment of 505 bp in the C\*07:06, 07:330:02 and 07:343 alleles.

Primer mix 9: Specific PCR fragment of 215 bp in the C\*07:33N allele. Specific PCR fragment of 425 bp in the C\*07:07, 07:09, 07:49, 07:76:01-07:76:02, 07:210, 07:238, 07:247, 07:315, 07:328, 07:403 and 07:406 and the C\*06:17 and 18:01-18:10 alleles.

Primer mix 11: Specific PCR fragment of 285 bp in the C\*07:24, 07:112, 07:218 and 07:396 alleles. Specific PCR fragment of 305 bp in the C\*07:10, 07:43:01-07:43:02, 07:184, 07:196 and 07:367 and the C\*03:03:29, 03:04:19 and 03:113:01 and in the B\*35:01:38, 35:03:15, 35:08:04, 35:15:02, B\*37:04:02, B\*57:01:18 and B\*58:01:17 alleles.

Primer mix 15: Specific PCR fragment of 80 bp in the C\*07:50 allele. Specific PCR fragment of 290 bp in the C\*07:14 allele. Specific PCR fragment of 460 bp in the C\*07:89 allele.

Primer mix 18: Specific PCR fragment of 120 bp in the C\*07:52 and 07:243 and the C\*05:03 alleles. Specific PCR fragment of 230 bp in the C\*07:15, 07:337 and 07:500 and the C\*02:77 and in the B\*07:77, B\*07:193, B\*40:60 and 40:245 alleles. Specific PCR fragment of 265 bp in the C\*07:486 allele.

Primer mix 19: Specific PCR fragment of 220 bp in the C\*07:26:01-07:26:02, 07:92, 07:96:01-07:96:02, 07:314:01-07:314:03, 07:317 and 07:351 and the B\*18:09 alleles. Specific PCR fragment of 465 bp in the C\*07:07, 07:16, 07:51, 07:177, 07:181, 07:328 and 07:367 alleles.

Primer mix 20: Specific PCR fragment of 145 bp in the C\*07:03, 07:17:01-07:17:03, 07:140-07:141:02, 07:304, 07:307 and 07:512 and C\*02:02:28, 03:03:29, 03:04:19, 03:113:01, 04:01:43, 05:01:17, 05:09:02, 05:17, 06:02:23, 08:15:02, 08:72:02, 12:03:10 and 16:02:11 and in the A\*25:27:02, A\*30:01:03, A\*33:03:09, B\*07:02:43, 07:33:03 and B\*08:01:25 alleles. Specific PCR fragment of 170 bp in the 07:44 and 07:48 alleles. Specific PCR fragment of 190 bp in the C\*07:81, 07:168 and 07:450 alleles. Specific PCR fragment of 145 bp and 190 bp in the B\*15:17:04, 35:01:38, 35:03:15, 35:08:04, 35:15:02, B\*37:04:02, B\*39:09:03, B\*57:01:18 and B\*58:01:17 alleles.

Primer mix 21: Specific PCR fragment of 100 bp in the C\*07:54 allele. Specific PCR fragment of 225 bp in the C\*07:06, 07:18-07:19, 07:330:02 and 07:517 alleles.

Primer mix 22: Specific PCR fragment of 205 bp in the C\*07:84 allele. Specific PCR fragment of 250 bp in the C\*07:20, 07:96:01-07:96:02, 07:127, 07:263, 07:390 and 07:562 and the C\*02:49, 02:75, 02:115, 03:15, 03:32, 03:45, 03:60, 03:136, 03:297, 04:03:01-04:03:03, 04:06, 04:16, 04:80, 04:147, 04:160, 04:171, 04:190, 04:256, 06:70:01-06:70:02, 06:132:01-06:132:02, 15:25 and 15:62 and in the A\*01:110 and A\*11:135 alleles.

Primer mix 23: Specific PCR fragment of 155 bp in the C\*07:23 allele. Specific PCR fragment of 185 bp in the C\*07:21 allele.

Primer mix 25: Specific PCR fragment of 105 bp in the C\*07:46 and 07:356 and the C\*03:342 and in the B\*56:08w and B\*56:14 alleles. Specific PCR fragment of 150 bp in the C\*07:30 allele. Specific PCR fragment of 235 bp in the C\*07:311 allele.

Primer mix 26: Specific PCR fragment of 100 bp in the C\*07:32N allele. Specific PCR fragment of 250 bp in the C\*07:55N allele. Specific PCR fragment of 300 bp in the C\*07:31:01-07:31:02, 07:177, 07:514 and the C\*06:02:23, 12:03:10 and 16:02:11 alleles.

Primer mix 27: Specific PCR fragment of 130 bp in the C\*07:37, 07:69, 07:176, 07:307, 07:512 and the C\*04:01:43, 05:01:17, 05:09:02 and 08:15:02 and in the B\*07:02:43, 07:33:03 and B\*35:08:04 alleles. Specific PCR fragment of 240 bp in the C\*07:267 and 07:322 and the C\*07:198w and 12:115 alleles.

Primer mix 28: Specific PCR fragment of 175 bp in the C\*07:44 allele. Specific PCR fragment of 260 bp in the C\*07:35, 07:47, 07:352 and 07:461 alleles. Specific PCR fragment of 290 bp in the C\*07:396 allele.

Primer mix 30: Specific PCR fragment of 60 bp in the C\*07:75 and 07:254 alleles. Specific PCR fragment of 260 bp in the C\*07:227N and the C\*04:66 alleles.

Primer mix 32: Specific PCR fragment of 115 bp in the C\*07:134 allele. Specific PCR fragment of 155 bp in the C\*07:189 allele. Specific PCR fragment of 245 bp in the C\*07:07, 07:09, 07:49, 07:76:01-07:76:02, 07:210, 07:238, 07:247, 07:315, 07:328, 07:403 and 07:406 and the C\*02:14:01-02:14:02, 02:107, 04:42:01-04:42:02, 04:220, 05:43, 06:02:01:01-06:02:01:03, 06:02:03-06:02:05, 06:02:07-06:02:11, 06:02:13-06:02:31, 06:02:33-06:02:46, 06:04:01-06:10, 06:12-06:28, 06:30-06:51, 06:53:01-06:75, 06:78-06:121, 06:123, 06:125-06:131, 06:133-06:146, 06:148-06:196, 15:23, 15:63, 17:20, 18:01-18:08 and 18:10 and in the B\*08:17 and 08:47 alleles. Specific PCR fragment of 285 bp in the C\*07:60 and 07:79 and the C\*03:39 and 03:67 and in the B\*08:39 alleles. Specific PCR fragment of 115 bp and 245 bp in the C\*06:29 allele.

Primer mix 33: Specific PCR fragment of 205 bp in the C\*07:66 allele. Specific PCR fragment of 230 bp in the C\*07:82 allele.

Primer mix 34: Specific PCR fragment of 105 bp in the C\*07:67 allele. Specific PCR fragment of 270 bp in the C\*07:70 and 07:503 alleles.

Primer mix 35: Specific PCR fragment of 320 bp in the C\*07:72 allele. Specific PCR fragment of 360 bp in the C\*07:71 allele.

Primer mix 37: Specific PCR fragment of 235 bp in the C\*07:121Q allele. Specific PCR fragment of 265 bp in the C\*07:38:01-07:38:02, 07:63, 07:68, 07:260:01-07:260:02 and 07:302 and the C\*05:111 and 08:38 and in the B\*07:77, 07:193, B\*40:60 and 40:245 alleles.

Primer mix 39: Specific PCR fragment of 100 bp in the C\*07:74 allele. Specific PCR fragment of 195 bp in the C\*07:308 allele. Specific PCR fragment of 255 bp in the C\*07:59 allele.

Primer mix 40: Specific PCR fragment of 120 bp in the C\*07:235Q allele. Specific PCR fragment of 205 bp in the C\*07:62 allele. Specific PCR fragment of 440 bp in the C\*07:07, 07:09, 07:76:01-07:76:02, 07:78:01-07:78:02, 07:315, 07:328, 07:406 and 07:559 and in the C\*06:17 and 18:01-18:10 alleles.

Primer mix 41: Specific PCR fragment of 140 bp in the C\*07:91 and 07:474 alleles. Specific PCR fragment of 170 bp in the C\*07:234 allele. Specific PCR fragment of 255 bp in the C\*07:88 and in the A\*25:32 alleles.

Primer mix 42: Specific PCR fragment of 100 bp in the C\*07:15 and 07:207 and the C\*02:02:28 alleles. Specific PCR fragment of 205 bp in the C\*07:77 and 07:93 alleles. Specific PCR fragment of 250 bp in the C\*07:35, 07:123, 07:173, 07:294 and 07:352 and in the B\*08:01:25, B\*35:01:38, 35:03:15, 35:08:04, B\*39:09:03, B\*57:01:18 and B\*58:01:17 alleles. Specific PCR fragment of 100 bp and 250 bp in the B\*07:02:43, 07:33:03 and B\*35:15:02 alleles.

Primer mix 43: Specific PCR fragment of 105 bp in the C\*07:94 and 07:183 alleles. Specific PCR fragment of 150 bp in the C\*07:99 and 07:189 alleles. Specific PCR fragment of 175 bp in the C\*07:80, 07:339 and 07:410 alleles. Specific PCR fragment of 220 bp in the C\*07:445 allele.

Primer mix 44: Specific PCR fragment of 165 bp in the C\*07:98N allele. Specific PCR fragment of 195 bp in the C\*07:65 and 07:77 alleles. Specific PCR fragment of 290 bp in the C\*07:396 allele.

Primer mix 45: Specific PCR fragment of 240 bp in the C\*07:245 allele. Specific PCR fragment of 475 bp in the C\*07:95 and 07:342 and the C\*04:34, 04:122, 04:212 and 06:153 and in the A\*26:112, B\*18:115, B\*35:178, 35:282, 35:316 and B\*73:01-73:02 alleles.

Primer mix 46: Specific PCR fragment of 315 bp in the C\*07:202 allele. Specific PCR fragment of 350 bp in the C\*07:90 allele. Specific PCR fragment of 420 bp in the C\*07:152N allele.

Primer mix 47: Specific PCR fragment of 200 bp in the C\*07:86 allele. Specific PCR fragment of 255 bp in the C\*07:222 and 07:375 alleles. Specific PCR fragment of 420 bp in the C\*07:152N allele. Specific PCR fragment of 455 bp in the C\*07:97 allele.

Primer mix 48: Specific PCR fragment of 155 bp in the C\*07:122 and 07:373 alleles. Specific PCR fragment of 220 bp in the C\*07:87 allele. Specific PCR fragment of 255 bp in the C\*07:222 and 07:375 alleles. Specific PCR fragment of 410 bp in the C\*07:85, 07:244, 07:276 and 07:480 alleles.

Primer mix 49: Specific PCR fragment of 70 bp in the C\*07:133 and 07:330:01-07:330:02 and the C\*03:03:29 and 03:04:19 alleles. Specific PCR fragment of 155 bp in the C\*07:101, 07:148 and 07:161 and the C\*04:129, 05:42, 05:46, 06:67, 08:05, 08:21, 08:137, 12:127 and 17:05 alleles. Specific PCR fragment of 230 bp in the C\*07:100, 07:259, 07:316 and 07:338 and the C\*01:17, 01:21, 01:23 and 01:128 alleles.

Primer mix 50: Specific PCR fragment of 345 bp in the C\*07:310 allele. Specific PCR fragment of 425 bp in the C\*07:124 and 07:155 alleles.

Primer mix 51: Specific PCR fragment of 65 bp in the C\*07:126 allele. Specific PCR fragment of 235 bp in the C\*07:121Q, 07:409 and 07:483N alleles. Specific PCR fragment of 285 bp in the C\*07:117 allele.

Primer mix 52: Specific PCR fragment of 65 bp in the C\*07:203 and 07:426 alleles. Specific PCR fragment of 205 bp in the C\*07:118 and the C\*06:194 alleles. Specific PCR fragment of 280 bp in the C\*07:106 allele.

Primer mix 53: Specific PCR fragment of 70 bp in the C\*07:133 and 07:330:01-07:330:02 and the C\*03:03:29 and 03:04:19 alleles. Specific PCR fragment of 110 bp in the C\*07:140, 07:151 and 07:154 and in the B\*08:01:25 and B\*37:04:02 alleles. Specific PCR fragment of 155 bp in the C\*07:122 and 07:373 alleles.

Primer mix 54: Specific PCR fragment of 120 bp in the C\*07:153 and 07:324 and in the B\*51:142 alleles. Specific PCR fragment of 200 bp in the C\*07:446 and in the B\*08:109 alleles. Specific PCR fragment of 235 bp in the C\*07:64, 07:374 and 07:402 alleles. Specific PCR fragment of 340 bp in the C\*07:125, 07:356 and 07:531 alleles. Specific PCR fragment of 370 bp in the C\*07:129 allele. Specific PCR fragment of 430 bp in the C\*07:01:02, 07:01:27, 07:01:52, 07:89, 07:93, 07:453 and 07:547 alleles.

Primer mix 55: Specific PCR fragment of 160 bp in the C\*07:179 and 07:234 and the C\*06:07 alleles. Specific PCR fragment of 210 bp in the C\*07:252 and in the A\*11:179 alleles. Specific PCR fragment of 290 bp in the C\*07:132 allele. Specific PCR fragment of 530 bp in the C\*07:343 allele.

Primer mix 56: Specific PCR fragment of 210 bp in the C\*07:150Q allele. Specific PCR fragment of 260 bp in the C\*07:123, 07:143, 07:173, 07:294, 07:421 and 07:524 and in the B\*07:02:43, 07:33:03, B\*08:01:25, B\*35:01:38, 35:03:15, 35:08:04, 35:15:02, B\*39:09:03, B\*57:01:18 and B\*58:01:17 alleles.

Primer mix 57: Specific PCR fragment of 70 bp in the C\*07:01:25 allele. Specific PCR fragment of 175 bp in the C\*07:130 and the C\*05:01:17, 05:09:02, 05:17 and 08:15:02 alleles. Specific PCR fragment of 230 bp in the C\*07:259 allele. Specific PCR fragment of 270 bp in the C\*07:421 and 07:524 alleles.

Primer mix 58: Specific PCR fragment of 80 bp in the C\*07:137:01-07:137:02, 07:186, 07:212 and 07:265 and the C\*03:162, 03:220 and in the B\*38:43, B\*44:247, B\*49:29 and B\*51:181 alleles. Specific PCR fragment of 450 bp in the C\*07:164N and 07:451N alleles.

Primer mix 59: Specific PCR fragment of 200 bp in the C\*07:81, 07:145, 07:168, 07:191N and 07:450 and in the B\*15:17:04, B\*35:01:38, 35:03:15, 35:08:04, 35:15:02, B\*37:04:02, B\*39:09:03, B\*57:01:18 and B\*58:01:17 alleles. Specific PCR fragment of 300 bp in the C\*07:485 allele.

Primer mix 60: Specific PCR fragment of 130 bp in the C\*07:165, 07:241, 07:265, 07:304, 07:307 and 07:512 and the C\*02:02:28, 03:03:29, 03:04:19, 03:113:01, 04:01:43, 05:01:17, 05:09:02, 06:02:23, 08:15:02 and 12:03:10 and in the B\*07:02:43, 07:33:03 and B\*15:17:04 alleles. Specific PCR fragment of 300 bp in the C\*07:147 and 07:485 alleles. Specific PCR fragment of 370 bp in the C\*07:180 allele.

Primer mix 61: Specific PCR fragment of 130 bp in the C\*07:81, 07:243 and 07:462 and the C\*16:76 and in the B\*40:304 alleles. Specific PCR fragment of 245 bp in the C\*07:120 allele.

Primer mix 62: Specific PCR fragment of 200 bp in the C\*07:84 and 07:205 and in the A\*26:101 alleles. Specific PCR fragment of 285 bp in the C\*07:106, 07:267 and 07:322 and the C\*04:198 and in the A\*26:94 alleles.

Primer mix 63: Specific PCR fragment of 275 bp in the C\*07:24, 07:218, 07:301 and 07:425 alleles. Specific PCR fragment of 320 bp in the C\*07:198N and 07:202 alleles.

Primer mix 64: Specific PCR fragment of 135 bp in the C\*07:69 allele. Specific PCR fragment of 230 bp in the C\*07:192, 07:272, 07:316, 07:326, 07:338 and 07:409 and the C\*01:17, 01:21, 01:23, 01:128 and 06:18w alleles.

Primer mix 65: Specific PCR fragment of 150 bp in the C\*07:136 and 07:264N alleles. Specific PCR fragment of 185 bp in the C\*07:371 and 07:494Q and the C\*16:16Q and in the B\*15:218Q alleles. Specific PCR fragment of 215 bp in the C\*07:551N allele.

Primer mix 66: Specific PCR fragment of 150 bp in the C\*07:136 allele. Specific PCR fragment of 185 bp in the C\*07:128, 07:232 and 07:513Q and the C\*12:42Q and in the B\*46:51Q alleles. Specific PCR fragment of 225 bp in the C\*07:279 alleles.

Primer mix 67: Specific PCR fragment of 180 bp in the C\*07:285 allele. Specific PCR fragment of 215 bp in the C\*07:393N allele. Specific PCR fragment of 290 bp in the C\*07:456 allele.

Primer mix 68: Specific PCR fragment of 75 bp in the C\*07:381 allele. Specific PCR fragment of 230 bp in the C\*07:149 allele. Specific PCR fragment of 260 bp in the C\*07:133 and 07:242 and the C\*03:178 and 03:300 alleles. Specific PCR fragment of 290 bp in the C\*07:456 allele.

Primer mix 69: Specific PCR fragment of 130 bp in the C\*07:170-07:171, 07:397 and 07:412 alleles. Specific PCR fragment of 185 bp in the C\*07:494Q and the C\*16:16Q and in the B\*15:218Q alleles.

Primer mix 70: Specific PCR fragment of 215 bp in the C\*07:131:01-07:131:02, 07:194 and 07:368:01-07:368:02 alleles. Specific PCR fragment of 345 bp in the C\*07:310 allele. Specific PCR fragment of 405 bp in the C\*07:61N allele.

Primer mix 71: Specific PCR fragment of 120 bp in the C\*07:347N allele. Specific PCR fragment of 240 bp in the C\*07:29:01-07:29:02, 07:177, 07:184 and 07:248 and the C\*03:03:29, 03:04:19 and 03:113:01 and in the B\*07:02:43 and 07:33:03 alleles. Specific PCR fragment of 280 bp in the C\*07:425 allele.

Primer mix 72: Specific PCR fragment of 120 bp in the C\*07:22, 07:137:01-07:137:02 and 07:138 and the C\*02:02:28, 06:02:23 and 12:03:10 and in the A\*02:02:28, A\*33:03:09, A\*68:01:12 and B\*39:09:03 alleles. Specific PCR fragment of 245 bp in the C\*07:484N allele. Specific PCR fragment of 290 bp in the C\*07:250 and 07:558 alleles.

Primer mix 74: Specific PCR fragment of 210 bp in the C\*07:33N, 07:293 and 07:519 alleles. Specific PCR fragment of 355 bp in the C\*07:80 allele.

Primer mix 75: Specific PCR fragment of 140 bp in the C\*07:116 and 07:329N allele. Specific PCR fragment of 220 bp in the C\*07:544 allele. Specific PCR fragment of 295 bp in the C\*07:533 and the C\*15:97 alleles.

Primer mix 76: Specific PCR fragment of 115 bp in the C\*07:437N allele. Specific PCR fragment of 280 bp in the C\*07:102 allele.

Primer mix 77: Specific PCR fragment of 200 bp in the C\*07:446 and in the B\*08:109 alleles. Specific PCR fragment of 240 bp in the C\*07:166, 07:220 and 07:348 and the C\*03:211:02 and in the B\*73:01-73:02 alleles. Specific PCR fragment of 430 bp in the C\*07:01:02, 07:01:27, 07:01:52, 07:89, 07:93, 07:453 and 07:547 alleles. Specific PCR fragment of 485 bp in the C\*07:419 allele.

Primer mix 80: Specific PCR fragment of 155 bp in the C\*07:350N allele. Specific PCR fragment of 265 bp in the C\*486 allele.

Primer mix 82: Specific PCR fragment of 170 bp in the C\*07:288 allele. Specific PCR fragment of 220 bp in the C\*07:393N and 07:483 alleles.

Primer mix 83: Specific PCR fragment of 170 bp in the C\*07:214 and 07:429 alleles. Specific PCR fragment of 215 bp in the C\*07:445 and 07:476N alleles. Specific PCR fragment of 250 bp in the C\*07:361 allele.

Primer mix 84: Specific PCR fragment of 130 bp in the C\*07:386 and 07:439 alleles. Specific PCR fragment of 185 bp in the C\*07:107 and 07:224 and the C\*06:22 and 16:31 and in the B\*15:193 and B\*35:283 alleles. Specific PCR fragment of 225 bp in the C\*07:311 and 07:551N alleles.

Primer mix 85: Specific PCR fragment of 200 bp in the C\*07:83 and 07:458 alleles. Specific PCR fragment of 275 bp in the C\*07:360 allele.

Primer mix 86: Specific PCR fragment of 135 bp in the C\*07:58 allele. Specific PCR fragment of 285 bp in the C\*07:226 allele.

Primer mix 87: Specific PCR fragment of 175 bp in the C\*07:339 and 07:410 alleles. Specific PCR fragment of 210 bp in the C\*07:411 and 07:507N alleles. Specific PCR fragment of 275 bp in the C\*07:340 allele.

Primer mix 88: Specific PCR fragment of 150 bp in the C\*07:452N and 07:491:01N-07:491:02N and the C\*01:111N and 14:47N and in the B\*15:209N and B\*46:55N alleles. Specific PCR fragment of 205 bp in the C\*07:507N allele. Specific PCR fragment of 285 bp in the C\*07:407 allele.

Primer mix 89: Specific PCR fragment of 75 bp in the C\*07:229 and 07:387 and the B\*12:131 alleles. Specific PCR fragment of 220 bp in the C\*07:272. 07:326, 07:374 and the C\*06:18w and 06:120w alleles.

Primer mix 92: Specific PCR fragment of 100 bp in the C\*07:104N and 07:457 and the C\*04:127 and 05:84 and in the B\*15:272N, B\*39:111 and B\*40:286N alleles. Specific PCR fragment of 170 bp in the C\*07:119 and the C\*02:99 and in the B\*07:87, B\*27:55 and 27:149 alleles.

Primer mix 93: Specific PCR fragment of 155 bp in the C\*07:491:01N-07:491:02N and the C\*01:111N and 14:47N and in the B\*15:209 and B\*46:55N alleles. Specific PCR fragment of 200 bp in the C\*07:453 allele.

**4**The C\*07:27:01-07:27:02 and 07:556 and the C\*12:181 alleles will give rise to identical amplification patterns. These alleles can e.g. be distinguished by the HLA-C low resolution kit.

**5**The following HLA-C\*07 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |  |  |
| --- | --- | --- | --- |
| Alleles | Primer mix | Alleles | Primer mix |
| C\*07:29:01-07:29:02, 07:347N | 71 | C\*07:118, 07:203 | 52 |
| C\*07:41, 07:447 | 1 | C\*07:120, 07:462 | 61 |
| C\*07:51, 07:314:01-07:314:03 | 19 | C\*07:125, 07:402 | 54 |
| C\*07:52, 07:337 | 18 | C\*07:132, 07:179 | 55 |
| C\*07:61N, 07:194, 07:368:01-07:368:02 | 70 | C\*07:138, 07:484N | 72 |
| C\*07:67, 07:503 | 34 | C\*07:147, 07:241 | 60 |
| C\*07:74, 07:308 | 39 | C\*07:149, 07:381 | 68 |
| C\*07:78:01-07:78:02, 07:235Q | 40 | C\*07:164N, 07:212 | 58 |
| C\*07:88, 07:474 | 41 | C\*07:165, 07:180 | 60 |
| C\*07:99, 07:183 | 43 | C\*07:166, 07:419 | 77 |
| C\*07:100, 07:161 | 49 | C\*07:186, 07:451N | 58 |
| C\*07:104N, 07:119 | 92 | C\*07:245, 07:342 | 45 |
| C\*07:117, 07:126 | 51 |

The HLA-C\*07 subtyping kit cannot distinguish the following silent mutations: the C\*07:01:01:01-07:01:01:07, 07:01:03-07:01:04, 07:01:06-07:01:12, 07:01:14-07:01:24, 07:01:26, 07:01:28-07:01:35, 07:01:37-07:01:51, 07:01:53-07:01:58, 07:204:01-07:204:02 and 07:454:01 alleles, the 07:01:02, 07:01:27 and 07:01:52 alleles, the C\*07:01:05 and 07:01:36 alleles, the C\*07:02:01:01-07:02:77 and 07:341:01-07:341:02 alleles, the C\*07:04:01:01-07:04:11 alleles, the C\*07:17:01-07:17:03 alleles, the 07:26:01-07:26:02 alleles, the C\*07:27:01-07:27:02 alleles, the C\*07:29:01-07:29:02 alleles, the C\*07:31:01-07:31:02 alleles, the C\*07:38:01-07:38:02 alleles, the 07:38:01-07:38:02 alleles, the 07:43:01-07:43:02 alleles, the C\*07:56:01-07:56:02, the C\*07:78:01-07:78:02 alleles, the C\*07:96:01-07:96:02 alleles, the C\*07:108:01-07:108:02 alleles, the C\*07:131:01-07:131:02 alleles, the C\*07:137:01-07:137:02 alleles, the C\*07:141:01-07:141:02 alleles, the C\*07:172:01-07:172:02 alleles, the C\*07:199:01-07:199:02 alleles, the 07:260:01-07:260:02 alleles, the C\*07:314:01-07:314:02 alleles, the 07:368:01-07:368:02 or the 07:491:01N-07:491:02N alleles.

**6**This lot of the C\*07 subtyping kit cannot distinguish the C\*07:359 and the C\*07:02:01:01-07:02:77, 07:105, 07:114, 07:135, 07:144, 07:146, 07:157-07:160, 07:167, 07:169, 07:174-07:175, 07:178, 07:185, 07:187, 07:193, 07:195, 07:208-07:209, 07:211, 07:213, 07:217, 07:221, 07:233, 07:239-07:240, 07:251, 07:261-07:262, 07:270-07:271, 07:273-07:275, 07:283-07:284, 07:286-07:287, 07:290-07:291, 07:305-07:306, 07:309, 07:312, 07:318-07:321, 07:325, 07:327, 07:333-07:334, 07:341:01-07:341:02, 07:344-07:346, 07:363, 07:372, 07:376, 07:379, 07:382-07:384, 07:388-07:389, 07:391-07:392, 07:398-07:401, 07:405, 07:413-07:416, 07:432-07:434, 07:436, 07:438, 07:449, 07:464-07:465, 07:472-07:473, 07:477-07:478, 07:482, 07:489, 07:495-07:496, 07:504-07:505, 07:509-07:511, 07:516, 07:518, 07:520, 07:525, 07:529-07:530, 07:532, 07:539, 07:541-07:542, 07:548, 07:553 and 07:560 alleles.

7This lot of the C\*07 subtyping kit cannot distinguish the C\*07:533 and the C\*07:02:01:01-07:02:77, 07:105, 07:114, 07:135, 07:144, 07:146, 07:157-07:160, 07:167, 07:169, 07:174-07:175, 07:178, 07:185, 07:187, 07:193, 07:195, 07:208-07:209, 07:211, 07:213, 07:217, 07:221, 07:233, 07:239-07:240, 07:251, 07:261-07:262, 07:270-07:271, 07:273-07:275, 07:283-07:284, 07:286-07:287, 07:290-07:291, 07:305-07:306, 07:309, 07:312, 07:318-07:321, 07:325, 07:327, 07:333-07:334, 07:341:01-07:341:02, 07:344-07:346, 07:359, 07:363, 07:372, 07:376, 07:379, 07:382-07:384, 07:388-07:389, 07:391-07:392, 07:398-07:401, 07:405, 07:413-07:416, 07:432-07:434, 07:436, 07:438, 07:449, 07:464-07:465, 07:472-07:473, 07:477-07:478, 07:482, 07:489, 07:495-07:496, 07:504-07:505, 07:509-07:511, 07:516, 07:518, 07:520, 07:525, 07:529-07:530, 07:532, 07:539, 07:541-07:542, 07:548, 07:553 and 07:560 alleles.

‘w’, may be weakly amplified.

Change in revision R01 compared to R00:

1. Primer mix 80 does not amplifies the C\*07:316 and 07:359 and the C\*05:108 and C\*06:111 alleles. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R02 compared to R01:

1. Correction of the tables on page 2.

Change in revision R03 compared to R02:

1. Primer mix 75 does not amplifies the C\*07:533 and the C\*15:97 alleles. Thus, this lot of the C\*07 subtyping kit cannot distinguish the C\*07:533 and the C\*07:02:01:01-07:02:77, 07:105, 07:114, 07:135, 07:144, 07:146, 07:157-07:160, 07:167, 07:169, 07:174-07:175, 07:178, 07:185, 07:187, 07:193, 07:195, 07:208-07:209, 07:211, 07:213, 07:217, 07:221, 07:233, 07:239-07:240, 07:251, 07:261-07:262, 07:270-07:271, 07:273-07:275, 07:283-07:284, 07:286-07:287, 07:290-07:291, 07:305-07:306, 07:309, 07:312, 07:318-07:321, 07:325, 07:327, 07:333-07:334, 07:341:01-07:341:02, 07:344-07:346, 07:359, 07:363, 07:372, 07:376, 07:379, 07:382-07:384, 07:388-07:389, 07:391-07:392, 07:398-07:401, 07:405, 07:413-07:416, 07:432-07:434, 07:436, 07:438, 07:449, 07:464-07:465, 07:472-07:473, 07:477-07:478, 07:482, 07:489, 07:495-07:496, 07:504-07:505, 07:509-07:511, 07:516, 07:518, 07:520, 07:525, 07:529-07:530, 07:532, 07:539, 07:541-07:542, 07:548, 07:553 and 07:560 alleles. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R04 compared to R03:

1. Primer mix 78 does not amplifies the C\*07:68, 07:76:02 and the C\*06:136 alleles. This has been corrected in the Specificity and Interpretation Tables.