Gel Documentation Form and Worksheet

HLA-A\*11 (101.416-12/04, -12u/04u) Lot No: 4E7 Expiry Date: 2019-07-01

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 9, 16, 23, 36, 53 and 63 may have tendencies of unspecific amplifications.

Primer mixes 7, 14, 21, 25 and 55 may give rise to a lower yield of HLA-specific PCR product than the other A\*11 primer mixes.

Primer mixes 9, 13, 16, 43, 50, 53, 55 and 60 may have a tendency of giving rise to primer oligomer formation.

Primer mix 31 may give rise to a long unspecific amplification product of about 800 bp. This band should be disregarded when interpreting the A\*11 SSP typings.

Primer mix 64 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-A\*11 alleles in bold lettering are listed as confirmed alleles on the on the IMGT/HLA web page [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), release 3.25.0, July 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 5: Specific PCR product of 180 bp in the A\*11:05 allele. Specific PCR product of 210 bp in the A\*11:110 and the A\*02:294, 32:54 and 66:08 alleles.

Primer mix 6: Specific PCR product of 190 bp in the A\*11:07 and 11:22 and the A\*01:79w alleles. Specific PCR product of 550 bp in the A\*11:06 and 11:18 and the A\*01:104w, 01:134w, 02:38, 02:101:01, 02:135, 02:154, 02:447, 02:543, 25:11, 26:03:01, 26:06, 26:21, 26:30, 26:36, 26:92 and 26:111 alleles.

Primer mix 8: Specific PCR fragment of 100 bp in the A\*11:09 and 11:34 and the A\*01:205 and 26:75 alleles. Specific PCR fragment of 175 bp in the A\*11:196 and 11:201 and the A\*01:129, 02:221, 23:41, 24:286, 29:15 and 31:78 alleles.

Primer mix 10: Specific PCR fragment of 120 bp in the A\*11:10 and the A\*01:51, 25:01:01-25:12N, 25:14-25:35, 26:01:01:01-26:06, 26:08-26:18, 26:20-26:29, 26:32-26:34, 26:36-26:43:02, 26:45-26:64, 26:66-26:71N, 26:73-26:75, 26:77-26:91, 26:93-26:113, 26:115-26:124, 34:01:01-34:08, 34:10N-34:15, 66:01:01-66:01:03, 66:04-66:11, 66:13-66:15, 66:17-66:20, 66:22, 66:24 and 69:02 and in the B\*07:102, B\*08:18, B\*15:357, B\*18:115, B\*35:178, 35:282, 35:316, B\*73:01-73:02 and C\*06:147 alleles. Specific PCR fragment of 280 bp in the A\*11:43 and the A\*01:143, 29:66 and 31:03 and in the C\*07:449 alleles. Specific PCR fragment of 120 and 280 bp in the A\*26:35 and 33:13 alleles.

Primer mix 15: Specific PCR fragment of 100 bp in the A\*11:12 and the A\*01:194, 02:34w-02:35:03w, 02:56:01-02:56:02, 02:62, 02:78, 02:103, 02:580w, 03:01:02, 03:01:06, 03:01:49, 03:02:01-03:02:04, 03:05:02-03:06, 03:10, 03:18, 03:31, 03:50, 03:65-03:66, 03:69N, 03:73, 03:75-03:76, 03:82, 03:90, 03:95, 03:106, 03:113w, 03:135, 03:150, 03:153, 03:160, 03:167, 03:177, 03:187, 03:200, 03:204, 03:208, 03:215, 03:218, 03:223, 03:226, 03:229, 03:231, 03:236-03:237, 03:242, 03:244, 03:249, 24:24, 24:290, 29:01:01:01-29:02:16, 29:02:17w, 29:03, 29:04w, 29:05-29:18, 29:21-29:29, 29:31-29:33, 29:35-29:47, 29:49-29:65, 29:67-29:73, 29:75-29:90, 30:17, 30:52, 30:60w, 30:72, 31:89, 32:17, 66:02, 66:12, 66:16, 66:21, 66:25-66:26Q, 68:01:01:01-68:01:17, 68:01:19-68:02:12, 68:06-68:14, 68:16-68:19, 68:21:01-68:23, 68:25-68:30, 68:32-68:39, 68:41-68:71, 68:73-68:84, 68:86-68:89, 68:91-68:92, 68:94N-68:96, 68:98-68:108, 68:110-68:122, 68:124-68:126, 68:127w, 68:128-68:148Q, 69:01, 69:03 and 74:13 alleles. Specific PCR fragment of 215 bp in the A\*11:24:02-11:25:01, 11:31, 11:35 and 11:158 and the A\*01:06, 01:200, 02:156, 02:338, 03:01:10, 03:08, 03:29-03:30, 03:34, 03:36, 03:41, 03:62-03:63, 03:88-03:89:02, 03:107-03:108, 03:152, 03:172, 03:176, 30:02:01:01-30:02:04, 30:02:06-30:03, 30:07, 30:09-30:10, 30:12-30:13, 30:22, 30:27N, 30:31-30:34, 30:44-30:45, 30:50-30:51, 30:57, 30:60-30:61, 30:64, 30:66-30:70N, 30:76N, 30:84-30:85, 31:03-31:04, 32:04, 33:49, 34:02:01, 34:02:03-34:04, 34:07-34:08, 34:10N, 34:13, 34:15 and 74:23 alleles. Specific PCR fragment of 100 bp and 215 bp in the A\*03:01:01:01-03:01:01:07, 03:01:03-03:01:05, 03:01:07-03:01:09, 03:01:11-03:01:48, 03:01:50-03:01:58, 03:03N-03:05:01, 03:07, 03:09, 03:11N-03:17:02, 03:19-03:28, 03:33, 03:35, 03:37-03:40, 03:42-03:49, 03:51-03:61, 03:64, 03:67-03:68N, 03:70-03:72, 03:74, 03:77-03:81, 03:83-03:87, 03:91N-03:94, 03:96-03:105, 03:109-03:112, 03:114-03:134, 03:136-03:149, 03:151, 03:154:01-03:159, 03:161N-03:166, 03:168N-03:171, 03:173-03:175, 03:178N-03:186, 03:188-03:193, 03:195-03:1997N, 03:199, 03:201-03:203, 03:205-03:207, 03:209-03:214, 03:216-03:217, 03:219-03:222, 03:224, 03:226-03:228, 03:230, 03:232-03:235, 03:238-03:241, 03:243, 03:245-03:248, 30:01:01-30:01:11, 30:08, 30:11:01-30:11:02, 30:14L-30:16, 30:18-30:20, 30:23-30:26, 30:30, 30:35-30:43, 30:48-30:49, 30:53-30:56, 30:58-30:59N, 30:62-30:63, 30:65, 30:71, 30:73N-30:75, 30:78N-30:79, 30:81-30:83, 30:86-30:89, 30:91-30:98, 30:102 and 34:09 alleles. Both PCR fragments may not always be obtained.

Primer mix 16: Specific PCR fragment of 95 bp in the A\*11:13 allele. Specific PCR fragment of 210 bp in the A\*11:07, 11:26, 11:54 and 11:117 and the A\*02:38, 02:101:01, 02:154, 02:447, 02:543, 03:18w, 03:135w, 23:10w, 24:10:01-24:10:02, 24:46w, 24:210, 24:300, 24:340, 25:10, 31:24, 33:61 and 68:134 alleles.

Primer mix 18: Specific PCR product of 225 bp in the A\*11:47 and 11:221 alleles. Specific PCR product of 240 bp in the A\*11:15:01 and 11:170Q and the A\*30:39 alleles.

Primer mix 19: Specific PCR product of 100 bp in the A\*11:134 and the A\*68:147 alleles. Specific PCR product of 175 bp in the A\*11:42 and in the B\*39:75 and B\*40:268 alleles. Specific PCR product of 265 bp in the A\*11:46 and 11:215N and in the B\*07:111N alleles.

Primer mix 20: Specific PCR fragment of 180 bp in the A\*11:42 and 11:131 and in the B\*39:75 and B\*40:268 alleles. Specific PCR fragment of 235 bp in the A\*11:17, 11:40 and 11:223 and the A\*01:43, 26:01:01:01-26:01:29, 26:01:31-26:02:02, 26:04, 26:07:01-26:15, 26:17-26:19, 26:22-26:29, 26:31-26:34, 26:36-26:43:02, 26:45-26:56, 26:58-26:77, 26:79-26:91, 26:93-26:110, 26:112-26:124 and 43:01 alleles.

Primer mix 22: Specific PCR fragment of 150 bp in the A\*11:37 and in the B\*27:87 alleles. Specific PCR fragment of 230 bp in the A\*11:06 and 11:18 and the A\*02:05:01-02:06:04, 02:06:06-02:06:21, 02:08, 02:10, 02:14, 02:21, 02:28, 02:41, 02:44, 02:51, 02:54, 02:57, 02:61, 02:72, 02:79:01-02:79:02, 02:84, 02:91, 02:99, 02:106, 02:108, 02:122, 02:126-02:127, 02:137, 02:142-02:144, 02:154, 02:169-02:170, 02:172, 02:178-02:180, 02:229, 02:232, 02:244, 02:248, 02:259, 02:271, 02:278, 02:286, 02:290, 02:295, 02:300, 02:310, 02:324, 02:328, 02:330, 02:333, 02:337, 02:344, 02:355, 02:358-02:359, 02:373N, 02:376, 02:382, 02:387, 02:398, 02:404-02:405, 02:409, 02:413, 02:415, 02:419-02:421, 02:428, 02:433, 02:438, 02:453-02:454, 02:465, 02:470-02:476N, 02:484, 02:489, 02:493, 02:495-02:496, 02:506N-02:507, 02:527, 02:532, 02:546, 02:550, 02:558, 02:572, 02:577, 02:291-02:593, 02:602, 02:623, 02:625-06:626, 02:630-02:631, 26:03:01, 26:06, 26:21, 26:30, 26:78, 26:92, 26:111 and 68:15 alleles.

Primer mix 24: Specific PCR fragment of 295 bp in the A\*11:48 and the A\*01:41 alleles. Specific PCR fragment of 465 bp in the A\*11:21N and the A\*01:04N, 03:21N, 23:07N and 24:11N alleles.

Primer mix 25: Specific PCR fragment of 190 bp in the A\*11:135 and 03:210 alleles. Specific PCR fragment of 225 bp in the A\*11:24:01, 11:25:02, 11:47 and 11:219 and the A\*03:01:02, 03:05:02, 11:221, 30:02:05, 34:02:02, 68:43:01 and 80:01:01:01-80:03 alleles.

Primer mix 26: Specific PCR fragment of 305 bp in the A\*11:26 and 11:118 and the A\*01:03, 01:192, 26:32, 26:70, 29:66, 32:62, 33:13, 36:03, 74:10 and in the C\*06:72 alleles. Specific PCR fragment of 370 bp in the A\*11:41 and the A\*34:12 and in the C\*04:210, 04:237, C\*06:90, C\*07:277 and 07:394 alleles.

Primer mix 27: Specific PCR fragment of 160 bp in the A\*11:208N and the A\*26:71N and 68:94N alleles. Specific PCR fragment of 205 bp in the A\*11:17, 11:155 and 11:226 and the A\*01:01:66, 01:72, 01:102, 01:167, 03:187, 26:62, 26:72, 36:01-36:02 and 36:04-36:05 alleles. Specific PCR fragment of 260 bp in the A\*11:27, 11:38-11:39, 11:55, 11:94 and 11:209, and the A\*01:01:12, 01:01:16, 01:01:55, 01:06, 01:10, 01:12, 01:19, 01:21, 01:26, 01:119, 01:126, 01:136, 01:160N, 03:97, 03:122, 03:135, 03:167, 24:92, 30:75 and 80:01:01:01-80:03 alleles. Specific PCR fragment of 205 bp and 260 bp in the A\*01:01:01:01-01:01:11, 01:01:13-01:01:15, 01:01:17-01:01:54, 01:01:56-01:01:57, 01:01:59-01:01:65, 01:01:67-01:02, 01:04N, 01:07-01:09:02, 01:11N, 01:13-01:18N, 01:22N-01:25, 01:27N-01:33, 01:35-01:40, 01:42-01:62, 01:64-01:65, 01:67:01-01:71, 01:74-01:88, 01:90-01:101, 01:103-01:118, 01:120-01:125, 01:127-01:129, 01:131-01:135, 01:137-01:159, 01:161-01:166, 01:168-01:191, 01:193-01:195, 01:197-01:199, 01:201-01:208Q and 03:18 alleles.

Primer mix 28: Specific PCR fragment of 140 bp in the A\*11:80 allele. Specific PCR fragment of 240 bp in the A\*11:15:02, 11:49 and 11:170Q alleles. Specific PCR fragment of 280 bp in the A\*26:35 allele.

Primer mix 30: Specific PCR fragment of 140 bp in the A\*11:80 allele. Specific PCR fragment of 190 bp in the A\*11:131 and 11:156 allele. Specific PCR fragment of 235 bp in the A\*11:45, 11:50Q and 11:182Q and the A\*66:11 alleles. Specific PCR fragment of 270 bp in the A\*11:29, 11:55, 11:215N and in the B\*07:111N alleles.

Primer mix 31: Specific PCR fragment of 230 bp in the A\*11:49 allele. Specific PCR fragment of 285 bp in the A\*11:30 and 11:43 and the A\*01:101, 01:143, 03:87, 29:66, 30:92, 31:03 and 33:13 and in the C\*07:449 alleles.

Primer mix 32: Specific PCR fragment of 205 bp in the A\*11:31, 11:35, 11:158 and 11:183 and the A\*01:21, 01:126, 02:156, 02:338, 03:07, 03:42, 03:133, 03:171, 30:04:01-30:04:02, 30:06, 30:09, 30:17, 30:29, 30:46, 30:77, 30:90, 31:03-31:04, 33:49, 68:103:01-68:103:02 and 74:23 alleles. Specific PCR fragment of 295 bp in the A\*11:32:01-11:32:02, 11:50Q and 11:147 and the A\*01:115, 03:154:01-03:154:02 and 30:51 alleles.

Primer mix 33: Specific PCR fragment of 110 bp in the A\*11:61 allele. Specific PCR fragment of 280 bp in the A\*11:74 allele. Specific PCR fragment of 305 bp in the A\*11:56 and in the C\*07:221 alleles.

Primer mix 34: Specific PCR fragment of 85 bp in the A\*11:58 and the A\*26:119 alleles. Specific PCR fragment of 170 bp in the A\*11:67 and 11:208N and the A\*26:71N and 68:94N alleles. Specific PCR fragment of 200 bp in the A\*11:156 allele. Specific PCR fragment of 265 bp in the A\*11:46 allele.

Primer mix 35: Specific PCR fragment of 95 bp in the A\*11:178 and 11:190 and the A\*01:95, 03:219, 23:09, 23:28, 24:77, 24:191, 31:07, 31:10 and 32:03 and in the B\*15:95 alleles. Specific PCR fragment of 290 bp in the A\*11:68 allele. Specific PCR fragment of 95 bp and 450 bp in the A\*11:62 and the A\*01:125 alleles.

Primer mix 36: Specific PCR fragment of 65 bp in the A\*11:65 and the A\*03:174 and in the B\*44:36 alleles. Specific PCR fragment of 220 bp in the A\*11:193 and 11:210N and the A\*24:264 alleles. Specific PCR fragment of 380 bp in the A\*11:64 and the A\*31:65 alleles.

Primer mix 37: Specific PCR fragment of 105 bp in the A\*11:66 allele. Specific PCR fragment of 185 bp in the A\*11:57 and 11:158 and the A\*02:156, 02:338, 03:171 and 68:103:01-68:103:02 alleles. Specific PCR fragment of 265 bp in the A\*11:51 allele. Specific PCR fragment of 290 bp in the A\*11:72 allele.

Primer mix 38: Specific PCR fragment of 95 bp in the A\*11:105 and 11:189 and the A\*02:484, 26:77 and 66:13 alleles. Specific PCR fragment of 120 bp in the A\*11:75 and in the B\*07:117 alleles. Specific PCR fragment of 225 bp in the A\*11:78N allele.

Primer mix 39: Specific PCR fragment of 205 bp in the A\*11:166 and the A\*01:203, 80:01:01:01-80:03 and in the C\*04:129, C\*05:25, 05:42, C\*06:05, 06:67, C\*07:101, 07:148, 07:161 and C\*08:28 alleles. Specific PCR fragment of 255 bp in the A\*11:235Q allele. Specific PCR fragment of 280 bp in the A\*11:52Q and 11:74 alleles.

Primer mix 41: Specific PCR fragment of 90 bp in the A\*11:59 and the A\*03:191 alleles. Specific PCR fragment of 215 bp in the A\*11:01:57, 11:31, 11:35, 11:60, 11:158, 11:183 and 11:209 and the A\*01:12, 01:19, 01:21, 01:126, 01:200, 02:156, 02:338, 03:02:01-03:02:04, 03:07, 03:10, 03:31-03:32, 03:42, 03:73, 03:76, 03:82, 03:90, 03:106, 03:113, 03:133, 03:160, 03:171, 03:198, 03:218, 03:223, 03:237, 03:242, 03:244, 24:92, 30:04:01w-30:04:02w, 30:06w, 30:09, 30:17w, 30:29w, 30:46w, 30:77w, 30:90w, 30:99w, 31:03-31:04, 33:49, 68:103:01w-68:103:02w and 74:23 alleles.

Primer mix 42: Specific PCR fragment of 95 bp in the A\*11:134 and 11:189 and the A\*02:484, 26:77 and 68:147 alleles. Specific PCR fragment of 175 bp in the A\*11:63 allele. Specific PCR fragment of 560 bp in the A\*11:69N and the A\*01:56N alleles.

Primer mix 43: Specific PCR fragment of 265 bp in the A\*11:51 allele. Specific PCR fragment of 445 bp in the A\*11:70:01-11:70:02 and 11:121 and the A\*01:83:01-01:83:02, 02:65, 02:80, 02:114, 02:117, 02:152, 02:246, 02:279, 02:298, 02:304, 02:406, 02:527, 02:582, 03:23:01-03:23:02, 03:89:01-03:89:02, 03:198, 29:48, 31:109, 33:08-33:09, 68:30, 68:75:01-68:75:02, 74:04 and 74:21 and in the B\*57:04:01-57:04:02 and 57:32 alleles.

Primer mix 44: Specific PCR fragment of 145 bp in the A\*11:76 allele. Specific PCR fragment of 215 bp in the A\*11:106 allele.

Primer mix 45: Specific PCR fragment of 210 bp in the A\*11:79 allele. Specific PCR fragment of 235 bp in the A\*11:219 and the A\*68:43:01 alleles. Specific PCR fragment of 340 bp in the A\*11:129 and 11:163 alleles. Specific PCR fragment of 400 bp in the A\*11:210N allele.

Primer mix 49: Specific PCR fragment of 180 bp in the A\*11:16, 11:35, 11:57, 11:73, 11:109N and 11:158 and the A\*02:156, 02:338, 03:123:01-03:123:02, 03:171 and 68:103:01-68:103:02 alleles. Specific PCR fragment of 230 bp in the A\*11:23, 11:50Q and 11:182Q and the A\*03:229 alleles.

Primer mix 50: Specific PCR fragment of 210 bp in the A\*11:142 allele. Specific PCR fragment of 310 bp in the A\*11:86 and the A\*03:218 alleles. Specific PCR fragment of 400 bp in the A\*11:210N alleles.

Primer mix 52: Specific PCR fragment of 90 bp in the A\*11:34 and the A\*01:205 and 26:75 alleles. Specific PCR fragment of 230 bp in the A\*11:81 allele. Specific PCR fragment of 545 bp in the A\*11:108 and the A\*01:45, 02:453, 02:557, 03:78, 24:271 and 66:17 alleles.

Primer mix 53: Specific PCR fragment of 150 bp in the A\*11:154 allele. Specific PCR fragment of 195 bp in the A\*11:100 and 11:175 and the A\*01:109 and 03:182 alleles.

Primer mix 54: Specific PCR fragment of 195 bp in the A\*11:109N, 11:166 and 11:238N and the A\*01:203, 80:01:01:01-80:03 and in the C\*04:129, C\*05:25, 05:42, C\*06:05, 06:67, C\*07:101, 07:148, 07:161 and C\*08:28 alleles. Specific PCR fragment of 270 bp in the A\*11:89, 11:153:01-11:153:02 and the A\*01:86, 03:04:01-03:04:03 and 30:34 alleles.

Primer mix 55: Specific PCR fragment of 115 bp in the A\*11:102 and 11:128 and the A\*01:148, 01:177 and 24:249 alleles. Specific PCR fragment of 170 bp in the A\*11:194 allele. Specific PCR fragment of 235 bp in the A\*11:90 and the A\*03:208 and 80:01:01:01-80:02 alleles.

Primer mix 56: Specific PCR fragment of 65 bp in the A\*11:94, 11:112 and 11:211 and the A\*01:10, 01:21, 01:26, 01:192 and 03:135 and in the B\*15:90w and B\*45:05w alleles.

Specific PCR fragment of 185 bp in the A\*11:238N allele. Specific PCR fragment of 230 bp in the A\*11:99N allele.

Primer mix 58: Specific PCR fragment of 95 bp in the A\*11:105 and 11:115N and the A\*66:13 and in the B\*39:110 alleles. Specific PCR fragment of 245 bp in the A\*11:180N allele.

Primer mix 59: Specific PCR fragment of 165 bp in the A\*11:174 allele. Specific PCR fragment of 340 bp in the A\*11:163 allele. Specific PCR fragment of 370 bp in the A\*11:124 allele.

Primer mix 60: Specific PCR fragment of 105 bp in the A\*11:128, 11:137N and the A\*01:148 alleles. Specific PCR fragment of 270 bp in the A\*11:127N and 11:153:01-11:153:02 and the A\*01:86, 03:04:01-03:04:03 and 30:34 alleles.

Primer mix 61: Specific PCR fragment of 90 bp in the A\*11:34 and the A\*01:205 and 26:75 alleles. Specific PCR fragment of 130 bp in the A\*11:03 and 11:175 and the A\*02:393, 02:489, 02:541, 02:589, 02:592, 03:135, 03:225, 24:177, 24:289, 26:28, 26:52, 29:83, 31:97, 31:110 and in the B\*15:173, B\*50:11, C\*03:299 and C\*12:74 alleles. Specific PCR fragment of 265 bp in the A\*11:54 and the A\*33:70 alleles.

Primer mix 63: Specific PCR fragment of 145 bp in the A\*11:171 alleles. Specific PCR fragment of 170 bp in the A\*11:154 and 11:194 alleles. Specific PCR fragment of 275 bp in the A\*11:120 allele.

**4**The HLA-A\*11 primer set cannot separate the A\*11:139, 11:143, 11:242 from the A\*66:23 alleles. These alleles can be distinguished by the HLA-A low resolution kit and/or the HLA-A\*66 high resolution kit.

**5**The following HLA-A\*11 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

|  |  |  |  |
| --- | --- | --- | --- |
| **Alleles** | **Primer mix** | **Alleles** | **Primer mix** |
| A\*11:09, 11:196 | 8 | A\*11:79, 11:129 | 45 |
| A\*11:13, 11:117 | 16 | A\*11:81, 11:108 | 52 |
| A\*11:58, 11:67 | 34 | A\*11:86, 11:142 | 50 |
| A\*11:59, 11:60 | 41 | A\*11:115N, 11:180N | 58 |
| A\*11:62, 11:68 | 35 | A\*11:120, 11:171 | 63 |
| A\*11:63, 11:69N | 42 | A\*11:124, 11:174 | 59 |
| A\*11:64, 11:65 , 11:193 | 36 | A\*11:127N, 11:137N | 60 |
| A\*11:66, 11:72 | 37 |

The HLA-A\*11 subtyping kit cannot distinguish the silent mutations in the A\*11:01:01:01-11:01:03, 11:01:05-11:01:20, 11:01:22-11:01:43, 11:01:45-11:01:56, 11:01:58-11:01:61 and 11:01:63-11:01:72 alleles, the A\*11:01:04, 11:01:21, 11:01:44 and 11:01:62 alleles, the A\*11:02:01-11:02:06 alleles, the A\*11:32:01-11:32:02, the A\*11:33:01-11:33:02 alleles, the A\*11:70:01-11:70:02, the A\*11:153:01-11:153:02 or the A\*11:199:01-11:199:02 alleles.

‘w’, may be weakly amplified.

Change in revision R01 compared to R00:

1. Primer mixes 53 and 55 do not amplify the A\*11:172 and the A\*01:37 alleles. This has been corrected in the Specificity and Interpretation Tables.

Change in revision R02 compared to R01:

1. Primer mix 12 amplifies the A\*01:15N allele. This has been corrected in the Specificity and Interpretation Tables.