

101.503-48/12 – including *Taq* pol., IFU-01
101.503-48u/12u – without *Taq* pol., IFU-02

Visit www.olerup-ssp.com for
“Instructions for Use” (IFU)

Lot No.: **72N**

Lot-specific information

Olerup SSP[®] HLA-B low resolution screening

Product number:	101.503-48/12 – including <i>Taq</i> pol. 101.503-48u/12u – without <i>Taq</i> pol.
Lot number:	72N
Expiry date:	2014-November-01
Number of tests:	48 tests – Product No. 101.503-48/48u 12 tests – Product No. 101.503-12/12u
Number of wells per test:	47 + 1
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C
- Adhesive PCR seals	RT
- Product Insert	RT

This Product Description is only valid for Lot No. 72N.

The Lot-specific information for HLA B low resolution screening including and without *Taq* polymerase is described in one common Product Insert.

Changes in revision R01 compared to R00:

1. Primer mix 19 does not amplify the B*15:101 allele. This has been corrected in the Specificity and Interpretation tables.

Changes in revision R02 compared to R01:

1. Primer mix 19 does not amplify the B*44:10 allele. This has been corrected in the Specificity and Interpretation Tables.

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Well **48** contains Negative Control primer pairs, that will amplify more than 95% of the *Olerup* SSP® HLA Class I, DRB, DQB1 and DPB1 amplicons as well as amplicons generated by a control primer pair.

PCR product sizes range from 75 to 430 base pairs.

The PCR product generated by the control primer pair is 430 base pairs.

Length of PCR product	105	200	105	80	75	80
5'-primer¹	164	340	440	45	45	43
	5'-CAC ^{3'}	5'-Agg ^{3'}	5'-TTA ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}	5'-Tgg ^{3'}
3'-primer²	231	2nd I	507	59	58	57
	5'-TgC ^{3'}	5'-AAA ^{3'}	5'-TTg ^{3'}	5'-CTC ^{3'}	5'-ggC ^{3'}	5'-CTC ^{3'}
A*	+	+	+			
B*	+	+	+			
C*	+	+	+			
DRB1				+	+	
DRB3				+	+	
DRB5				+		
DQB1					+	
DPB1						+

¹The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide and codon numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

²The nucleotide position for HLA class I genes and the codon for HLA class II genes, in the 2nd or 3rd exon or the 2nd intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide and codon numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

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PRODUCT DESCRIPTION

HLA-B low resolution screening SSP typing

CONTENT

The primer set contains 5'- and 3'-primers for grouping the B*07:02 to B*83:01 alleles into the corresponding serological groups B7 to B81 as well as primer pairs for recognizing the Bw4 and Bw6 sequence motifs.

PLATE LAYOUT

Each test consists of 48 PCR reactions in a 48 well cut PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48

Wells 1 to 47 – HLA-B low resolution screening primers.

Well 48 – Negative Control.

The 48 well cut PCR plate is marked with 'HLA-B low screening' in silver/gray ink.

Well No. 1 is marked with the Lot No. '72N'.

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded.

The PCR plates are covered with a PCR-compatible foil.

Please note: When removing each 48 well PCR plate, make sure that the remaining plates stay sealed. Use a scalpel or a similar instrument to carefully cut the foil between the plates.

INTERPRETATION

Only HLA-B alleles will be amplified by the HLA-B low resolution screening typing kit, except that primer mix 1 will amplify the C*02:23 and C*04:77 alleles, primer mix 3 will amplify the C*03:05, C*03:25 and C*03:27 alleles, primer mix 4 will amplify the C*01:30 allele, primer mix 6 will amplify the A*23:31, A*24:106 and C*16:10 alleles, primer mix 8 will amplify the C*07:46 allele, primer mix 13 will amplify the A*24:174 allele, primer mix 17 will amplify the C*03:102 allele, primer mix 21 will amplify the C*15:51 allele, primer mix 25 will amplify the C*03:129 allele, primer mix 29 will amplify the C*15:25 allele, primer mix 31 will amplify the C*15:39 allele, primer mix 40 will amplify the C*15:02:04 allele, primer mix 41 will amplify the C*03:12, C*03:19 and C*03:102 alleles, primer mix 43 will weakly amplify the C*02:06 and C*02:47 alleles and primer mix 45 will amplify the A*26:68, A*68:56, C*06:20 and C*12:50 alleles.

Thus, the interpretation of HLA-B low resolution screening typings is only influenced by these five HLA-A alleles and 20 HLA-C alleles, and not by other alleles of other HLA class I genes.

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UNIQUELY IDENTIFIED ALLELES

All the HLA-B alleles recognized by the HLA Nomenclature Committee in January 2012¹ will be amplified by the primers in the HLA-B low resolution screening SSP kit. The HLA-B alleles will be grouped into their corresponding serological specificities^{2,3}.

¹HLA-B alleles listed on the IMGT/HLA web page 2012-January-12, release 3.7.0, www.ebi.ac.uk/imgt/hla.

²It is not possible to identify all serological splits and combinations of the B15 group of alleles, as the serological reactivity of several of the B*15 alleles is not known.

The resolution has been updated to fulfill the NMDP medium resolution confirmatory typing requirements effective from February 1st 2001.

DNA-based HLA-B typing resolution required:

B*07:xx, B*08:xx, B*13:xx, B*14:xx, B*18:xx, B*27:xx, B*15:22, B*35:xx, B*37:xx, B*38:xx, B*39:xx, B*40:05, B*41:xx, B*42:xx, B*44:xx, B*45:xx, B*46:xx, B*47:xx, B*48:xx, B*49:xx, B*50:xx, B*51:xx, B*52:xx, B*53:xx, B*54:xx, B*55:xx, B*56:xx, B*57:xx, B*58:xx, B*59:xx, B*67:xx, B*73:xx, B*78:xx, B*81:xx, B*82:xx,	
B*40EJD ^a	40:01, 40:07, 40:10, 40:12, 40:14, 40:15, 40:16
B*40EJB ^b	40:02, 40:03, 40:04, 40:06, 40:08, 40:09, 40:11, 40:13, 40:18, 40:19, 40:20
B*15EJA ^c	15:01, 15:04, 15:05, 15:06, 15:07, 15:20, 15:24, 15:25, 15:26N, 15:27, 15:28, 15:30, 15:32, 15:33, 15:34, 15:35, 15:36, 15:38, 15:39, 15:40, 15:43, 15:45
B*15AHM ^d	15:16, 15:17
B*15EHZ ^e	15:03, 15:09, 15:10, 15:18, 15:23, 15:29, 15:37, 15:47
B*15CYP ^f	15:02, 15:08, 15:11, 15:15, 15:21, 15:31, 15:44
B*15AND ^g	15:12, 15:14, 15:19
B*1513 ^h	

^aB60 serologic equivalent cluster.

^bB61 serologic equivalent cluster.

^cB62 serologic equivalent cluster.

^dB63 serologic equivalent cluster.

^eB70 serologic equivalent cluster.

^fB75 serologic equivalent cluster.

^gB76 serologic equivalent cluster.

^hB77 serologic equivalent cluster.

³The B*08:26, 08:50 and 08:62 and the B*42:07 alleles give rise to identical amplification patterns with the HLA-B low resolution screening primer set. These alleles can be separated by the respective high resolution primer sets.

The B*13:21 and 13:35 and the B*44:135 alleles give rise to identical amplification patterns with the HLA-B screening primer set. These alleles can be separated by the respective high resolution primer sets.

The B*14:08 and the B*39:25N, 39:30, 39:32-39:34, 39:47 and 39:50 alleles give rise to identical amplification patterns with the HLA-B low resolution screening primer set. These alleles can be separated by the respective high resolution primer sets.

The B*18:29 and the B*35:32:01-35:32:02, 35:37, 35:53N, 35:64, 35:66, 35:68:01-35:68:02, 35:99, 35:118-35:119 and 35:174 alleles give rise to identical amplification patterns with the HLA-B screening primer set. These alleles can be separated by the respective high resolution primer sets.

The B*41:09 and the B*45:02 and B*45:03 alleles give rise to identical amplification patterns with the HLA-B screening primer set. These alleles can be separated by the respective high resolution primer sets.

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The B*54:01:02 and the B*55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48 and 55:50 alleles give rise to identical amplification patterns with the HLA-B screening primer set. These alleles can be separated by the respective high resolution primer sets.

The B*55:04, 55:08, 55:13, 55:27, 55:46 and 55:49 and the B*56:15, 56:19N and 56:22 alleles give rise to identical amplification patterns with the HLA-B screening primer set. These alleles can be separated by the respective high resolution primer sets.

The B*55:23 and 55:32 and the B*56:18, 56:31-56:32 alleles give rise to identical amplification patterns with the HLA-B screening primer set. These alleles can be separated by the respective high resolution primer sets.

The B*57:01:01-57:01:04, 57:01:06-57:01:12, 57:06, 57:08, 57:10, 57:15-57:16, 57:18-57:20, 57:22-57:23, 57:25-57:27, 57:29-57:30, 57:33-57:38, 57:40-57:41, 57:43-57:44, 57:48-57:50 and 57:52 and the B*58:36 alleles give rise to identical amplification patterns with the HLA-B screening primer set. These alleles can be separated by the respective high resolution primer sets.

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SPECIFICITY TABLE

HLA-B low resolution screening SSP typing

Specificities and sizes of the PCR products of the 47+1 primer mixes used for HLA-B low resolution screening SSP typing

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	HLA-B serol. ³	Amplified HLA-B alleles ^{4,5}
1^{6,10}	110 bp	800 bp	7, 703, 40, 41, 42, 48, 61	*07:02:01-07:18:02, 07:20-07:32, 07:34-07:39, 07:41-07:47, 07:49N-07:50, 07:52, 07:54-07:59, 07:61-07:99, 07:101-07:121, 07:123-07:138, 07:140-07:144, 08:79, 15:138, 15:230, 37:07, 40:15-40:16, 40:23, 40:32, 40:98, 40:136, 40:158, 41:08, 42:05:01-42:05:02, 48:05, 48:08, 48:15, C*02:23, C*04:77
2	215 bp	1070 bp	8, 44	*08:01:01-08:05, 08:07-08:25, 08:27-08:49, 08:51-08:61, 08:63-08:64, 08:66-08:80, 15:142, 15:180, 44:49, 51:68
3	140 bp, 235 bp	1070 bp	7, 8, 13, 15, 35, 4005, 44, 49, 61, 62, 77	*07:20, 07:24, 07:60, 07:100, 07:131, 08:21, 08:25, 13:01:01-13:04, 13:06-13:08Q, 13:10-13:23, 13:25-13:38, 13:40-13:52, 15:07:01-15:07:02, 15:36 ^w , 15:45, 15:55, 15:68, 15:89 ^w , 15:126, 15:207, 35:05:01-35:05:02, 35:16-35:17, 35:22, 35:30, 35:51, 35:58, 35:72, 35:89, 35:97, 35:113-35:114, 35:125, 35:164, 40:05, 40:71, 40:174, 44:08 ^w , 44:54, 44:57 ^w , 44:60, 44:106, 44:110, 44:135, 46:12, 51:64, 53:14, 55:51, 58:18, C*03:05, C*03:25, C*03:27
4^{7,8}	130 bp, 265 bp	800 bp	12, 13, 14, 17, 21, 35, 40, 41, 44, 45, 47, 49, 50, 60, 61, 64, 65	*13:01:01-13:04, 13:06-13:13, 13:15-13:23, 13:25-13:52, 14:01:01-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:28, 15:46, 15:53, 15:106, 15:212, 18:44, 35:46-35:47, 35:63, 35:154, 40:01:01-40:01:23, 40:07, 40:10:01-40:10:02, 40:14:01-40:16, 40:22N-40:23, 40:25, 40:30-40:34, 40:36, 40:38, 40:42-40:43, 40:45, 40:47-40:49, 40:51-40:55, 40:58-40:63, 40:65-40:67, 40:69, 40:72:01-40:73, 40:76-40:77, 40:79-40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:110, 40:112-40:114, 40:116-40:118N, 40:121, 40:123-40:126, 40:128-40:130, 40:132, 40:134-40:136, 40:139-40:141, 40:146-40:147, 40:150-40:156, 40:158, 40:160, 40:163-40:164, 40:166, 40:168, 40:171-40:172, 40:175, 40:178-40:179, 41:01-41:19, 44:02:01-44:03:06, 44:03:08-44:05:03, 44:09-44:39, 44:41:01-44:43:02, 44:45-44:56N, 44:58N-44:80, 44:82, 44:84-44:102, 44:104-44:110, 44:112-44:129, 44:132-44:133, 44:135-44:139, 45:01-45:13, 47:01:01-47:08, 49:01:01-49:02, 49:04-49:20, 50:01:01-50:02, 50:04-50:06, 50:08-50:15, 57:45, 57:51, C*01:30
5⁸	185 bp, 235 bp	800 bp	7, 16, 17, 27, 2708, 37, 38, 3901, 3902, 39,	*14:01:01-14:01:02, 14:07N-14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 27:01-27:05:15, 27:05:17-27:06, 27:08-27:10, 27:12-27:13, 27:16-27:18, 27:20, 27:23, 27:26-27:27, 27:29, 27:31, 27:35-27:37, 27:39-27:42, 27:44-27:46, 27:48-27:61, 27:64N-27:69, 27:72-27:75, 27:77-27:80,

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			64, 67	27:82-27:86, 37:02, 38:01:01-38:02:02, 38:03, 38:07-38:24, 38:26-38:32, 38:34N-38:37, 39:01:01:01-39:01:01:02L, 39:01:03-39:01:08, 39:01:10-39:02:01, 39:03, 39:05:01-39:09, 39:11, 39:14-39:15, 39:18, 39:19:02, 39:22, 39:24:01-39:44, 39:46-39:48, 39:50-39:62, 39:64-39:68, 47:04-47:05, 48:21, 48:26, 67:01:01, 67:03
6	190 bp	800 bp	14, 35, 38, 39, 65	*07:28, 14:02:01-14:02:02, 14:02:04-14:02:05, 14:03-14:06:02, 14:09, 14:11, 14:13, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27, 15:77, 15:189, 15:233, 35:26, 38:05, 38:33, 39:04, 44:16, 44:37, 44:64:01-44:64:02, 44:91, 44:132, 52:26, 57:04, A*23:31, A*24:106, C*16:10
7	290 bp	1070 bp	15, 22, 62, 63, 71, 72, 75, 76, 77, 46	*15:01:01:01-15:01:03, 15:01:06-15:02:05, 15:03:03-15:08, 15:10:02-15:11:03, 15:11:05-15:15, 15:17:01:01-15:17:02, 15:19-15:21, 15:24-15:28, 15:30-15:36, 15:38:01-15:40, 15:42-15:46, 15:48, 15:50, 15:55-15:58, 15:60, 15:63, 15:65-15:66, 15:70-15:71, 15:73, 15:75-15:79N, 15:81-15:89, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:107, 15:109-15:113, 15:116-15:118, 15:120-15:122, 15:125-15:126, 15:128-15:129, 15:135-15:150, 15:152, 15:154-15:155, 15:157, 15:159-15:160, 15:162-15:172, 15:174-15:175, 15:177-15:179, 15:181N-15:185, 15:187-15:196, 15:199, 15:201-15:209N, 15:211, 15:213-15:219, 15:223-15:225, 15:227-15:228, 15:230-15:234, 15:236-15:237, 46:01:01-46:30
8	165 bp, 220 bp, 330 bp	1070 bp	5, 8, 12, 21, 22, 37, 41, 42, 44, 45, 48, 51, 56, 57, 60, 62, 70, 71, 72, 82	*08:01:01-08:05, 08:08N-08:12:03, 08:15-08:19N, 08:21-08:24, 08:26-08:27, 08:29-08:36, 08:38-08:39, 08:41-08:48, 08:50-08:54, 08:56-08:69, 08:71-08:73, 08:75-08:76, 08:78, 08:80, 13:46, 15:03:01-15:03:03, 15:09-15:10:02, 15:18:01-15:18:04, 15:23, 15:29, 15:37, 15:46-15:47, 15:49, 15:51-15:54, 15:61-15:62, 15:64, 15:69, 15:72, 15:74, 15:80, 15:83, 15:90-15:91, 15:93, 15:98-15:99, 15:103, 15:106, 15:108, 15:114-15:115, 15:119, 15:123-15:124, 15:127, 15:131-15:134, 15:143, 15:151, 15:153, 15:156, 15:158, 15:161, 15:173, 15:176, 15:186, 15:197-15:198, 15:200, 15:210, 15:212, 15:220-15:221, 15:226N, 15:229, 15:235, 15:238, 35:87, 37:12, 38:30, 40:12, 40:136, 41:01-41:03:02, 41:05-41:09, 41:11-41:17, 41:19, 42:01:01-42:02, 42:04-42:08, 42:10-42:15, 44:14-44:15, 44:18, 44:20, 44:62, 44:100, 45:01-45:13, 51:08, 51:20, 51:36, 51:44N, 51:97, 52:19, 55:20, 56:13, 57:09, 82:01-82:03, C*07:46
9^{8,9,11}	165 bp, 190 bp, 390 bp	1070 bp	63	*15:01:02, 15:09, 15:16:01-15:17:02, 15:67, 15:95, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:222, 15:230, 35:01:10, 35:04:02, 40:26, 40:28, 44:62, 49:18, 50:14, 51:01:01-51:01:03, 51:01:05-51:02:03, 51:02:05-51:09:02, 51:11N-51:12, 51:13:02-51:14, 51:16-51:23, 51:24:03-51:24:04, 51:26-51:33, 51:37-51:41N, 51:43-51:44N, 51:46, 51:48-51:61, 51:63-51:80, 51:82-51:91, 51:94-51:98N, 51:100-51:126, 52:01:01:01-52:01:04, 52:01:06-52:13, 52:15-52:24, 52:26-52:27, 56:05:01-56:06, 56:21, 58:08:01-58:08:02, 78:01:01-78:07

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11⁶	105 bp, 195 bp	1070 bp	8, 12, 27, 38, 39, 3902, 40, 44, 45, 48, 60, 70, 71, 72, 82	*07:27, 07:50, 08:04, 08:17, 08:54, 15:03:01-15:03:03, 15:47, 15:49, 15:54, 15:61-15:62, 15:64, 15:68-15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235, 18:37, 27:18, 27:29, 37:28, 38:03, 39:02:01-39:02:02, 39:08, 39:13:01-39:13:02, 39:23, 39:39, 39:49, 40:12, 40:46, 40:93, 42:11, 44:10, 44:15, 44:18, 44:40, 44:44, 44:130, 45:01, 45:05-45:07, 45:11-45:13, 48:01:01-48:05, 48:07-48:27, 49:20, 50:02, 52:16, 55:18, 82:01-82:03
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35⁶	120 bp, 210 bp	800 bp	5, 13, 15, 17, 22, 35, 45, 49, 50, 51, 5102, 5103, 52, 55, 56, 62, 63, 78	*07:78, 07:84, 13:16, 13:31 ^w , 13:48, 15:04 ^w , 15:16:01- 15:16:03, 15:42, 15:67, 15:95, 15:137 ^w , 40:95, 40:148, 40:161, 49:01:01, 49:01:03-49:10, 49:12-49:20, 50:01:01- 50:02, 50:04-50:11, 50:13-50:15, 51:01:01-51:03, 51:05, 51:07:01-51:09:02, 51:11N-51:14, 51:16-51:24:04, 51:26- 51:41N, 51:43-51:44N, 51:48-51:55, 51:57-51:58, 51:60, 51:61 ^w , 51:63, 51:65-51:80, 51:82-51:126, 52:01:01:01- 52:27, 54:20, 55:01:01-55:01:06, 55:01:08, 55:03, 55:05, 55:09, 55:11, 55:15, 55:17, 55:21 ^w , 55:24-55:25, 55:28- 55:29, 55:31, 55:33, 55:36, 55:38, 55:40, 55:44-55:45, 55:52-55:54, 56:05:01-56:06, 56:21, 56:25, 58:08:01- 58:08:02, 78:01:01-78:07
36	430 bp	1070 bp	5, 17, 27, 44, 51, 5102, 5103, 52, 53, 57, 58, 61	*18:67, 27:02:01-27:02:02, 27:30, 27:53, 27:57, 27:62, 27:65N, 27:75, 27:77, 27:83, 40:13, 40:19, 40:109, 40:117, 44:06, 44:25, 44:50, 44:95, 51:01:01-51:24:04, 51:26-51:46, 51:48-51:53, 51:55-51:77, 51:79-51:126, 52:01:01:01- 52:19, 52:21-52:27, 53:01:01-53:02, 53:04-53:08:02, 53:10, 53:14-53:27, 57:01:01-57:11, 57:13-57:52, 58:01:01-58:02, 58:04-58:16, 58:18-58:36
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38	300 bp	1070 bp	7, 12, 13, 15, 17, 18, 21, 27, 2708, 35, 37, 38, 39, 3902, 40, 4005, 41, 44, 45, 47, 48, 49, 50, 52, 60, 61, 62, 70, 72, 76	*07:54, 07:123, 08:17, 08:38, 08:54, 13:01:01-13:04, 13:06, 13:08Q-13:23, 13:25-13:35, 13:37-13:52, 15:01:01:01- 15:01:04, 15:01:06-15:01:18, 15:01:20-15:01:24, 15:03:01- 15:07:02, 15:12, 15:14, 15:19-15:20, 15:24-15:27:03, 15:30, 15:32-15:36, 15:38:01-15:40, 15:42-15:43, 15:45-15:50, 15:53-15:54, 15:56-15:58, 15:60-15:63, 15:65-15:66, 15:68- 15:71, 15:73-15:75, 15:77-15:79N, 15:81-15:87, 15:91- 15:92, 15:94N, 15:96-15:98, 15:101-15:107, 15:109- 15:111N, 15:113, 15:116-15:118, 15:122-15:123, 15:125- 15:129, 15:131-15:132, 15:135-15:138, 15:140-15:142, 15:145-15:147, 15:150-15:152, 15:154-15:160, 15:163- 15:167, 15:169, 15:171-15:175, 15:178-15:179, 15:181N- 15:185, 15:187-15:188, 15:190N, 15:192-15:193, 15:195,

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42^{6,10}	90 bp, 240 bp	800 bp	57	*55:14, 57:01:01-57:44, 57:46-57:50, 57:52, 58:36
43^{6,13}	90 bp	1070 bp	5, 13, 15, 17, 39, 55, 56, 58, 60, 61, 62, 71	*13:11, 15:18:03, 15:73, 15:224, 39:17, 40:48, 40:71, 51:62, 52:25, 56:02, 56:04, 56:10, 58:01:01-58:02, 58:04-58:35, C*02:06^w, C*02:47^w
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45^{6,8}	115 bp, 150 bp	1070 bp	15, 18,22, 27, 35, 39, 46, 55, 62, 72, 73, 75, 76	*07:100, 13:31, 13:41, 15:01:01:01-15:01:04, 15:01:06-15:01:16, 15:01:18-15:01:24, 15:04, 15:07:01-15:08, 15:11:01-15:12, 15:14-15:15, 15:19, 15:24, 15:26N-15:28, 15:30, 15:32, 15:34-15:35, 15:38:01-15:38:02, 15:43, 15:45-15:46, 15:50, 15:53-15:54, 15:56-15:58, 15:60, 15:63, 15:66, 15:68, 15:70-15:71, 15:73, 15:75-15:77, 15:79N, 15:81-15:82, 15:85, 15:87, 15:92, 15:94N, 15:96-15:97, 15:101-15:102, 15:104-15:105, 15:109-15:111N, 15:113, 15:117-15:118, 15:120, 15:122, 15:125-15:126, 15:128-15:129, 15:135, 15:137, 15:140, 15:142-15:149N, 15:152, 15:154, 15:157, 15:159-15:160, 15:163-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:180-15:184, 15:187, 15:189-15:193, 15:201-15:203, 15:205-15:207, 15:209N, 15:211-15:212, 15:215, 15:217, 15:225, 15:227-15:228, 15:231-15:234, 15:236, 18:19, 27:25, 27:75, 35:14:01-35:14:02, 35:43:01-35:44, 35:62, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135, 35:163, 35:43:02, 39:18, 39:36, 46:01:01-46:02, 46:04-46:05, 46:07N, 46:09-46:10, 46:12, 46:14-46:17, 46:20, 46:22-46:24, 46:27-46:30, 51:61, 52:21, 54:06, 55:21, 56:03, 73:01-73:02, A*26:68, A*68:56, C*06:20, C*12:50
46¹⁴	360 bp	1070 bp	Bw4	-
47	350 bp	1070 bp	Bw6	-
48¹⁵	-	-	-	Negative Control

¹Alleles are assigned by the presence of specific PCR product(s). However, the sizes of the specific PCR products may be helpful in the interpretation of HLA-B low resolution screening SSP typings.

When the primers in a primer mix can give rise to specific PCR products of more than one length this is indicated if the size difference is 20 base pairs or more. Size differences shorter than 20 base pairs are not given. For high resolution SSP kits the respective lengths of the specific PCR product(s) of the alleles amplified by these primer mixes are given.

Nonspecific amplifications, i.e. a ladder or a smear of bands, may sometimes be seen. GC-rich primers have a higher tendency of giving rise to nonspecific amplifications than other primers.

PCR fragments longer than the control bands may sometimes be observed. Such bands should be disregarded and do not influence the interpretation of the SSP typings.

PCR fragments migrating faster than the control bands, but slower than a 400 bp fragment may be seen in some gel read-outs. Such bands can be disregarded and do not influence the interpretation of the SSP typings.

Some primers may give rise to primer oligomer artifacts. Sometimes this phenomenon is an inherent feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.

²The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B low resolution screening typing.

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In addition, wells number 4 to 6, 10, 17, 20, 21, 30, 35 and 42 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

In the presence of a specific amplification the intensity of the control band often decreases.

³The serological reactivity of all HLA-B alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

⁴Nucleotide sequence information is available for only exons 2 and 3 of many HLA Class I alleles and for only exon 2 of many HLA Class II alleles and not for other exons or for the introns of these alleles. We assume that unknown sequences in these exons and in the introns are conserved within loci and within allelic groups.

⁵Due to sharing of sequence motifs, primer mix 1 will amplify the C*02:23 and C*04:77 alleles, primer mix 3 will amplify the C*03:05, C*03:25 and C*03:27 alleles, primer mix 4 will amplify the C*01:30 allele, primer mix 6 will amplify the A*23:31, A*24:106 and C*16:10 alleles, primer mix 8 will amplify the C*07:46 allele, primer mix 13 will amplify the A*24:174 allele, primer mix 17 will amplify the C*03:102 allele, primer mix 21 will amplify the C*15:51 allele, primer mix 25 will amplify the C*03:129 allele, primer mix 29 will amplify the C*15:25 allele, primer mix 31 will amplify the C*15:39 allele, primer mix 40 will amplify the C*15:02:04 allele, primer mix 41 will amplify the C*03:12, C*03:19 and C*03:102 alleles, primer mix 43 will weakly amplify the C*02:06 and C*02:47 alleles and primer mix 45 will amplify the A*26:68, A*68:56, C*06:20 and C*12:50 alleles.

⁶Specific PCR fragments shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR bands.

⁷Primer mix 4 may yield less specific PCR product than the other HLA-B low resolution screening primer mixes in B*40, B*41, B*45, B*49 and B*50 alleles.

⁸Primer mixes 4, 5, 9, 39 and 45 give a lower yield of specific PCR product than the other HLA-B low resolution screening primer mixes.

⁹Primer mixes 9, 20, 28 and 39 may give rise to nonspecific amplifications, most pronounced in primer mix 9.

¹⁰Primer mixes 1, 15, 19, 20 and 42 may give rise to a primer oligomer artifact.

¹¹The B*57 and B*58 alleles might be faintly amplified by primer mix 9.

¹²The C*17:01 to C*17:04 alleles might be faintly amplified by primer mix 25.

¹³Primer mixes 32 and 43 may generate a false positive band of about 800 base pairs. This band should be disregarded when interpreting HLA-B low resolution screening typings.

¹⁴The Bw4-associated HLA-A specificities A9, A23, A24, A2403, A25 and A32 are not amplified by the primer pair in primer mix 46.

¹⁵Primer mix 48 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

‘w’, might be weakly amplified.

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

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INTERPRETATION TABLE																										
HLA-B low resolution screening SSP																										
Amplification patterns of the B*07:02 to B*83:01 alleles ¹⁵																										
		Well																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Length of spec.		110	215	140	130	185	190	290	165	165	180	105	280	195	105	115	80	150	135	60	210	170	110	395	160	
PCR product(s)				235	265	235			330	390	190	195			435	150				400	245				425	
Length of int. pos. control ¹		800	1070	1070	800	800	800	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	800	800	1070	1070	800	800	1070	1070	1070
5'-primer(s) ²		5' -TgA ^{3'} 527	5' -TCg ^{3'} 97	5' -ggC ^{3'} 209	5' -CCg ^{3'} 103	5' -CCT ^{3'} 103	5' -CCg ^{3'} 103	5' -ggA ^{3'} 45	5' -ggA ^{3'} 45	5' -ggA ^{3'} 45	5' -TTA ^{3'} 420	5' -AgA ^{3'} 206	5' -gTC ^{3'} 419	5' -TCT ^{3'} 142	5' -ggA ^{3'} 45	5' -Cgg ^{3'} 161	5' -gCT ^{3'} 167	5' -TCA ^{3'} 355	5' -gAC ^{3'} 206	5' -ggA ^{3'} 45	5' -TCT ^{3'} 142	5' -ggC ^{3'} 409	5' -gAA ^{3'} 246	5' -ggC ^{3'} 44	5' -ggC ^{3'} 44	
		5' -gAC ^{3'} 540		5' -AgC ^{3'} 363	5' -CCg ^{3'} 103	5' -AAT ^{3'} 363	5' -Agg ^{3'} 418		5' -Tgg ^{3'} 357	5' -AAA ^{3'} 435		5' -TTA ^{3'} 420		5' -gTC ^{3'} 419	5' -gAC ^{3'} 540				5' -gTT ^{3'} 368	5' -gTT ^{3'} 368	5' -TCT ^{3'} 368	5' -TTA ^{3'} 420		5' -Tgg ^{3'} 357		
				5' -AgC ^{3'} 363	5' -AgT ^{3'} 361				5' -ATA ^{3'} 412											5' -ggA ^{3'} 557						
3'-primer(s) ³		5' -gCT ^{3'} 605	5' -Tgg ^{3'} 272	5' -gTg ^{3'} 309	5' -CgT ^{3'} 193	5' -TAT ^{3'} 246	5' -TAT ^{3'} 246	5' -Tgg ^{3'} 165	5' -CCT ^{3'} 206	5' -TCC ^{3'} 266	5' -CTC ^{3'} 559	5' -Tgg ^{3'} 272	5' -TAT ^{3'} 3 ^a	5' -gTC ^{3'} 301	5' -Tgc ^{3'} 272	5' -TCT ^{3'} 234	5' -TCT ^{3'} 204	5' -gCT ^{3'} 463	5' -ggC ^{3'} 302	5' -gTT ^{3'} 259	5' -ggg ^{3'} 311	5' -ggT ^{3'} 544	5' -ggA ^{3'} 317	5' -Tgc ^{3'} 272	5' -ggC ^{3'} 302	
			5' -TgA ^{3'} 272	5' -Cag ^{3'} 559	5' -CgT ^{3'} 193	5' -TAT ^{3'} 246	5' -gcc ^{3'} 572		5' -gTC ^{3'} 538	5' -Cag ^{3'} 559		5' -gCg ^{3'} 572		5' -gTC ^{3'} 301	5' -ATC ^{3'} 309	5' -Tga ^{3'} 272				5' -gTT ^{3'} 259	5' -ggg ^{3'} 311			5' -ggT ^{3'} 302	5' -gCg ^{3'} 477	
					5' -gTg ^{3'} 583	5' -CTC ^{3'} 559				5' -gTg ^{3'} 583				5' -CCg ^{3'} 572	5' -gCT ^{3'} 605	5' -Tgg ^{3'} 272				5' -TCC ^{3'} 266	5' -gTC ^{3'} 538				5' -gCg ^{3'} 477	
														5' -gCg ^{3'} 572						5' -Tgg ^{3'} 272						
																				5' -gTA ^{3'} 292						
																				5' -gCg ^{3'} 572						
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
HLA-B allele ⁴	ser. ⁵																								
*07:02:01-07:02:29, 07:05:01-07:07, 07:10, 07:12-07:15, 07:18:01- 07:18:02, 07:21-07:23, 07:26, 07:29-07:31, 07:34- 07:35, 07:39, 07:41- 07:46, 07:49N, 07:52, 07:55-07:59, 07:61-07:64, 07:66-07:68:03, 07:70- 07:72, 07:74-07:77, 07:79- 07:80, 07:82-07:83, 07:86- 07:99, 07:101-07:121, 07:124-07:130, 07:132, 07:135N-07:138, 07:140- 07:144	B7, B42, Null, -	1																							24
*07:03, 07:08, 07:16, 07:32, 07:37	B703, -	1																							24
*07:04, 07:25	B7, -	1													14										24
*07:09, 07:11, 07:17	B7	1											12												24
*07:19, 07:33, 07:40, 07:48, 07:51, 07:53, 07:122, 07:139	B7, -																								24
*07:20, 07:24, 07:131	B7, -	1		3																					24
*07:27	-	1										11								20					
*07:28	-	1				6																			24
*07:36, 07:81	-	1																							
*07:38	-	1																							
*07:47	-	1																							24
*07:50	-	1										11													24
*07:54, 07:123	-	1																							24
*07:60	-			3																					24
*07:65	-	1																	18						
*07:69, 07:85	-	1																					23	24	
*07:73	-	1														16									24
*07:78	-	1									10														24
*07:84	-	1																							24
*07:100	-			3																					24
*07:133	-	1																							24
*07:134	-	1																	18						24
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	
																								ser. ⁵	HLA-B allele ⁴	
			28																			47		Negative Control	B7, B42, Null, -	*07:02:01-07:02:29, 07:05:01-07:07, 07:10, 07:12-07:15, 07:18:01-07:18:02, 07:21-07:23, 07:26, 07:29-07:31, 07:34 07:35, 07:39, 07:41-07:46, 07:49N, 07:52, 07:55-07:59, 07:61-07:64, 07:66-07:68:03, 07:70-07:72, 07:74-07:77, 07:79 07:80, 07:82-07:83, 07:86 07:99, 07:101-07:121, 07:124-07:130, 07:132, 07:135N-07:138, 07:140-07:144
																						47	B703, -		*07:03, 07:08, 07:16, 07:32, 07:37	
		27	28																			47	B7, -		*07:04, 07:25	
			28																			47	B7		*07:09, 07:11, 07:17	
																						47	B7, -		*07:19, 07:33, 07:40, 07:48, 07:51, 07:53, 07:122, 07:139	
			28																			47	B7, -		*07:20, 07:24, 07:131	
																					46		-		*07:27	
			28																			47	-		*07:28	
			28																			46	-		*07:36, 07:81	
																					46	-	*07:38			
			w																			47	-		*07:47	
																						47	-		*07:50	
			28									38										47	-		*07:54, 07:123	
			28																			47	-		*07:60	
			28				32							40				w				47	-		*07:65	
																						47	-		*07:69, 07:85	
			28																			47	-		*07:73	
			28							35												47	-		*07:78	
			28							35												47	-		*07:84	
			28																	45		47	-		*07:100	
			28									37										47	-	*07:133		
			28															w				47	-	*07:134		
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*08:01:01-08:01:16, 08:05, 08:08N, 08:10- 08:12:03, 08:15-08:16, 08:18-08:19N, 08:22- 08:24, 08:27, 08:29- 08:31, 08:33-08:34, 08:39, 08:41-08:48, 08:51, 08:53, 08:56- 08:59, 08:61, 08:63- 08:64, 08:66-08:69, 08:71- 08:73, 08:75, 08:80	B8, -, Null		2						8																24
*08:02-08:03, 08:52, 08:78	B8, -		2						8																
*08:04	-		2						8			11													24
*08:07, 08:14, 08:74, 08:77	B8, -		2																						24
*08:09	B8		2						8																24
*08:13, 08:20, 08:40, 08:70	-		2																						24
*08:17, 08:54	-		2						8			11													24
*08:21	-		2	3					8																24
*08:25	-		2	3																					24
*08:26, 08:50, 08:62, 42:07 ⁶	-								8																24
*08:28, 08:37	-		2									12													24
*08:32	-		2						8										18						24
*08:35	-		2						8			12													24
*08:36	-		2						8																
*08:38	-		2						8																24
*08:49	-		2															17		20					24
*08:55	-		2																			21			24
*08:60, 08:76	-		2						8																24
*08:65	-								8															23	24
*08:79	-	1	2																						24
*13:01:01-13:01:06, 13:17, 13:20, 13:22:01- 13:23, 13:25, 13:28- 13:29, 13:43, 13:50, 13:52	B13, -			3	4						10							17							
*13:02:01-13:02:12, 13:08Q, 13:15, 13:18- 13:19, 13:27, 13:30, 13:32-13:34, 13:37-13:38, 13:40, 13:42, 13:44- 13:45, 13:47, 13:49N	B13, Null, -			3	4						10														
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
		27																				47		B8, -, Null *08:01:01-08:01:16, 08:05, 08:08N, 08:10- 08:12:03, 08:15-08:16, 08:18-08:19N, 08:22- 08:24, 08:27, 08:29- 08:31, 08:33-08:34, 08:39, 08:41-08:48, 08:51, 08:53, 08:56- 08:59, 08:61, 08:63- 08:64, 08:66-08:69, 08:71 08:73, 08:75, 08:80
		27																				46		B8, - *08:02-08:03, 08:52, 08:78
		27																					47	- *08:04
		27																					47	B8, - *08:07, 08:14, 08:74, 08:77
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																							47	- *08:13, 08:20, 08:40, 08:70
		27											38										47	- *08:17, 08:54
		27																					47	- *08:21
																							47	- *08:25
		27																					47	- *08:26, 08:50, 08:62, 42:07 ⁶
		27																					47	- *08:28, 08:37
		27																44					47	- *08:32
		27																					47	- *08:35
		27																					47	- *08:36
		27																					47	- *08:38
		27		29																			47	- *08:49
																							47	- *08:55
		27		29																			47	- *08:60, 08:76
		27																					47	- *08:65
																							47	- *08:79
													38										46	B13, - *13:01:01-13:01:06, 13:17, 13:20, 13:22:01- 13:23, 13:25, 13:28- 13:29, 13:43, 13:50, 13:52
													38										46	B13, Null, - *13:02:01-13:02:12, 13:08Q, 13:15, 13:18- 13:19, 13:27, 13:30, 13:32-13:34, 13:37-13:38, 13:40, 13:42, 13:44- 13:45, 13:47, 13:49N
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*13:03	-			3	4																				
*13:04, 13:10	B15, B21, -			3	4							12													
*13:06	-			3	4													17							
*13:07N	Null			3	4						10							17							
*13:09	-				4						10														
*13:11	-			3	4						10														
*13:12-13:13, 13:51	B13, -			3	4													17							
*13:14	-			3							10														
*13:16	-			3	4						10														
*13:21, 13:35, 44:135 ⁷	-			3	4																				
*13:26	-			3	4							12						17							
*13:31	-			3	4						10														
*13:36	-			3	4						10							17							
*13:39	-				4						10							17							
*13:41	-			3	4						10														
*13:46	-			3	4				8																
*13:48	-			3	4																				
*14:01:01-14:01:02, 14:07N, 14:12, 14:14, 14:19, 14:26	B64(14) , Null, -				4	5																		23	24
*14:02:01-14:02:02, 14:02:04, 14:03-14:04, 14:09, 14:11, 14:15- 14:18, 14:20, 14:22- 14:23, 14:25, 14:27	B65(14) , B14, -				4		6																	23	24
*14:02:03, 14:02:06, 14:24, 14:28	B65(14) , -				4																			23	24
*14:02:05	B65(14)				4		6																	23	
*14:05-14:06:02, 14:13	B14, -						6																	23	24
*14:08, 39:25N, 39:30, 39:32-39:34, 39:47, 39:50 ⁸	B39(16) , Null, -					5																		23	24
*14:10	-					5												17						23	24
*14:21	-				4																				24
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	
													38			41					46		Negative Control	-	*13:03	
													38								46			B15, B21, -	*13:04, 13:10	
													38		40						46			-	*13:06	
																					46			Null	*13:07N	
													38									47		-	*13:09	
													38					43			46			-	*13:11	
													38								46			B13, -	*13:12-13:13, 13:51	
													38								46			-	*13:14	
										35			38								46			-	*13:16	
													38								46			-	*13:21, 13:35, 44:135 ⁷	
													38								46			-	*13:26	
										w			38							45	46			-	*13:31	
								33													46			-	*13:36	
													38									47		-	*13:39	
													38							45	46			-	*13:41	
					30								38								46			-	*13:46	
										35			38			41					46			-	*13:48	
																						47		B64(14), Null, -	*14:01:01-14:01:02, 14:07N, 14:12, 14:14, 14:19, 14:26	
																						47			B65(14), B14, -	*14:02:01-14:02:02, 14:02:04, 14:03-14:04, 14:09, 14:11, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27
																					47	B65(14), -				*14:02:03, 14:02:06, 14:24, 14:28
																					47	B65(14)			*14:02:05	
																					47	B14, -	*14:05-14:06:02, 14:13			
																					47	B39(16), Null, -	*14:08, 39:25N, 39:30, 39:32-39:34, 39:47, 39:50 ⁸			
						31																47	-		*14:10	
			28																			47	-	*14:21		
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*15:01:01:01-15:01:01:02N, 15:01:03, 15:01:06-15:01:16, 15:01:18, 15:01:20-15:01:24, 15:26N-15:27:03, 15:32, 15:34-15:35, 15:38:01-15:38:02, 15:50, 15:56, 15:60, 15:70-15:71, 15:75, 15:79N, 15:81-15:82, 15:92, 15:94N, 15:96-15:97, 15:102, 15:104-15:105, 15:109-15:111N, 15:113, 15:117-15:118, 15:122, 15:125, 15:128-15:129, 15:135, 15:140, 15:145-15:147, 15:152, 15:159-15:160, 15:163-15:164, 15:166-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:181N-15:184, 15:187, 15:190N, 15:192-15:193, 15:201, 15:203, 15:205-15:206, 15:211, 15:217, 15:225, 15:227-15:228, 15:231-15:232, 15:234	B62(15) , Null, -							7					12							19					
*15:01:02	B62(15)							7		9			12							19					
*15:01:04	B62(15)												12							19					
*15:01:17, 15:05:01-15:06, 15:33, 15:39:01-15:40, 15:65, 15:78:01-15:78:03, 15:84, 15:107, 15:136, 15:141, 15:155, 15:179, 15:185, 15:195, 15:199, 15:218Q-15:219, 15:237	B62(15) , B15, -							7					12							19					
*15:01:19, 15:28, 15:120, 15:149N	B62(15) , Null, -							7					12							19					
*15:02:01-15:02:05, 15:88, 15:112, 15:121, 15:139, 15:170, 15:194, 15:213-15:214, 15:223	B75(15) , B15, -							7					12					17		19					
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	
																								B62(15) , Null, -	*15:01:01:01-15:01:01:02N, 15:01:03, 15:01:06-15:01:16, 15:01:18, 15:01:20-15:01:24, 15:26N-15:27:03, 15:32, 15:34-15:35, 15:38:01-15:38:02, 15:50, 15:56, 15:60, 15:70-15:71, 15:75, 15:79N, 15:81-15:82, 15:92, 15:94N, 15:96-15:97, 15:102, 15:104-15:105, 15:109-15:111N, 15:113, 15:117-15:118, 15:122, 15:125, 15:128-15:129, 15:135, 15:140, 15:145-15:147, 15:152, 15:159-15:160, 15:163-15:164, 15:166-15:167, 15:169, 15:171-15:172, 15:174-15:175, 15:178, 15:181N-15:184, 15:187, 15:190N, 15:192-15:193, 15:201, 15:203, 15:205-15:206, 15:211, 15:217, 15:225, 15:227-15:228, 15:231-15:232, 15:234	
													38							45		47				
													38							45		47			B62(15)	*15:01:02
													38							45		47			B62(15)	*15:01:04
													38									47			B62(15) , B15, -	*15:01:17, 15:05:01-15:06, 15:33, 15:39:01-15:40, 15:65, 15:78:01-15:78:03, 15:84, 15:107, 15:136, 15:141, 15:155, 15:179, 15:185, 15:195, 15:199, 15:218Q-15:219, 15:237
																				45		47		B62(15) , Null, -	*15:01:19, 15:28, 15:120, 15:149N	
								33														47		B75(15) , B15, -	*15:02:01-15:02:05, 15:88, 15:112, 15:121, 15:139, 15:170, 15:194, 15:213-15:214, 15:223	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*15:03:01-15:03:02, 15:47, 15:49, 15:61, 15:98, 15:103, 15:123, 15:127, 15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235	B72(70) , B70, -								8			11	12							19					
*15:03:03	B72(70)							7	8			11	12							19					
*15:04	B62(15)							7					12							19					
*15:07:01-15:07:02, 15:126, 15:207	B62(15) , -			3				7					12							19					
*15:08, 15:11:01- 15:11:03, 15:11:05, 15:15, 15:148, 15:191, 15:209N, 15:215	B75(15) , B62(15) , Null, -							7					12							19					
*15:09	B70								8	9					14					19					
*15:10:01, 15:37, 15:90, 15:99, 15:133, 15:229	B71(70) , B70, -								8						14					19					
*15:10:02	B71(70)							7	8						14					19					
*15:11:04	B75(15)												12							19					
*15:12, 15:14, 15:19	B76(15)							7					12	13						19					
*15:13:01-15:13:02	B77(15) , -							7					12		14			17		19					
*15:16:01-15:16:03, 15:67, 15:95	B63(15) , -									9			12		14					19					
*15:17:01:01-15:17:02, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216	B63(15) , -							7		9					14					19					
*15:18:01-15:18:02, 15:18:04, 15:51-15:52, 15:72, 15:93, 15:108, 15:114, 15:119, 15:134, 15:153, 15:176, 15:197- 15:198, 15:200, 15:221, 15:226N, 15:238	B71(70) , B70, B15, Null, -								8				12		14					19					
*15:18:03	B71(70)								8				12		14					19					
*15:20, 15:25:01- 15:25:03, 15:204	B62(15) , -							7					12					17		19					
*15:21, 15:44	B75(15) , -							7					12		14			17		19					
*15:23, 15:115	-								8				12		14					19					
*15:24, 15:87, 15:157	B62(15) , -							7					12		14					19					
*15:29	B15								8				12							19					
*15:30, 15:58, 15:63	B62(15) , -							7												19					
*15:31	B75(15)							7					12							19					
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	
													38									47		B72(70) , B70, -	*15:03:01-15:03:02, 15:47, 15:49, 15:61, 15:98, 15:103, 15:123, 15:127, 15:132, 15:151, 15:156, 15:158, 15:173, 15:210, 15:220, 15:235
													38									47		B72(70)	*15:03:03
									w				38							45		47		B62(15)	*15:04
													38							45		47		B62(15) , -	*15:07:01-15:07:02, 15:126, 15:207
								33												45		47		B75(15) , B62(15) , Null, -	*15:08, 15:11:01- 15:11:03, 15:11:05, 15:15, 15:148, 15:191, 15:209N, 15:215
																						47		B70	*15:09
																						47		B71(70) , B70, -	*15:10:01, 15:37, 15:90, 15:99, 15:133, 15:229
																						47		B71(70)	*15:10:02
								33												45		47		B75(15)	*15:11:04
													38							45		47		B76(15)	*15:12, 15:14, 15:19
								33														46		B77(15) , -	*15:13:01-15:13:02
										35												46		B63(15) , -	*15:16:01-15:16:03, 15:67, 15:95
																						46		B63(15) , -	*15:17:01:01-15:17:02, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216
																						47		B71(70) , B70, B15, Null, -	*15:18:01-15:18:02, 15:18:04, 15:51-15:52, 15:72, 15:93, 15:108, 15:114, 15:119, 15:134, 15:153, 15:176, 15:197- 15:198, 15:200, 15:221, 15:226N, 15:238
																43						47		B71(70)	*15:18:03
													38									47		B62(15) , -	*15:20, 15:25:01- 15:25:03, 15:204
								33														47		B75(15) , -	*15:21, 15:44
																				46				-	*15:23, 15:115
													38							45	46			B62(15) , -	*15:24, 15:87, 15:157
																						47		B15	*15:29
													38							45		47		B62(15) , -	*15:30, 15:58, 15:63
								33														47		B75(15)	*15:31
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

Negative Control

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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 “Instructions for Use” (IFU)

Lot No.: **72N**

Lot-specific information

Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*15:36	-			w				7					12					17		19					
*15:42	-							7												19					
*15:43	-							7					12							19					
*15:45	B62(15)			3				7												19					
*15:46	B72(70)				4			7	8				12							19					
*15:48, 15:150, 15:188	B62(15) , -							7												19					
*15:53, 15:212	-				4				8				12							19					
*15:54	-								8			11	12							19					
*15:55	B15			3				7					12							19					
*15:57	-							7					12							19					
*15:62	-								8			11	12					17		19					
*15:64	-								8			11	12							19					
*15:66	-							7					12		14					19					
*15:68	B35			3								11	12												
*15:69	-								8			11	12							19		21			
*15:73	B62(15)							7												19					
*15:74	-								8				12							19					
*15:76	-							7					12							19					
*15:77	-						6	7										17		19					
*15:80	B70								8				12		14			17		19					
*15:83	-							7	8											19					
*15:85, 15:154, 15:165	-							7					12					17		19					
*15:86	-							7												19					
*15:89	-			w				7					12					17		19					
*15:91, 15:131	-								8			11	12	13						19					
*15:101	-							7					12												
*15:106	-				4			7	8				12					17		19					
*15:116	-							7					12							19					
*15:124	-								8				12		14					19					
*15:137	-							7												19					
*15:138	-	1						7					12							19					
*15:142	-		2					7					12							19					
*15:143	-							7	8				12							19					
*15:144	-							7					12					17		19					
*15:161	-								8				12	13	14					19					
*15:180	-		2										12												
*15:186	-								8				12		14					19		21			
*15:189	-						6	7					12		14					19					
*15:202	-							7					12						18	19					
*15:222	-									9			12		14					19					
*15:224	-							7												19					
*15:230	-	1						7		9					14					19					
*15:233	-						6	7												19					
*15:236	-							7					12												
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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													38								46			-	*15:36
										35			38		40							47		-	*15:42
													38							45	46		-	*15:43	
													38							45	47		B62(15)	*15:45	
												37	38							45	47		B72(70)	*15:46	
													38									47	B62(15)	*15:48, 15:150, 15:188	
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												37	38							45	47		-	*15:53, 15:212	
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								33														47	B15	*15:55	
					w								38							45	47		-	*15:57	
													38									47	-	*15:62	
																						47	-	*15:64	
													38							45	47		-	*15:66	
													38							45	47		B35	*15:68	
													38									47	-	*15:69	
													38			41	43			45	47		B62(15)	*15:73	
													38									47	-	*15:74	
			28					w												45	47		-	*15:76	
													38							45	47		-	*15:77	
																						47	B70	*15:80	
					30								38									47	-	*15:83	
													38							45	47		-	*15:85, 15:154, 15:165	
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								33													46		-	*15:89	
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			28										38							45	47		-	*15:101	
												37	38									47	-	*15:106	
25													38									47	-	*15:116	
25																						47	-	*15:124	
										w			38							45	47		-	*15:137	
													38									47	-	*15:138	
													38							45	47		-	*15:142	
												37								45	47		-	*15:143	
								33												45	47		-	*15:144	
																						47	-	*15:161	
																				45	47		-	*15:180	
																						47	-	*15:186	
								33												45	47		-	*15:189	
													38							45	47		-	*15:202	
																					46		-	*15:222	
													38		40		43					47	-	*15:224	
																					46		-	*15:230	
													38							45	47		-	*15:233	
													38							45	47		-	*15:236	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.

Negative Control

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **72N**

Lot-specific information

Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*18:01:01-18:03, 18:05-18:08, 18:10-18:11, 18:13-18:15, 18:17N-18:18, 18:20-18:21, 18:23N-18:25, 18:27-18:28, 18:30-18:36, 18:38-18:40, 18:42-18:43, 18:45-18:47, 18:50-18:53, 18:55, 18:57-18:60, 18:62-18:65, 18:68	B18, Null, -												12			15			18						
*18:04	B18												12			15			18						
*18:09	B18												12			15									
*18:12	-												12			15			18						
*18:19	-												12			15			18						
*18:22	-												12			15		17	18						
*18:26, 18:41, 18:61	-															15			18						
*18:29, 35:32:01-35:32:02, 35:37, 35:53N, 35:64, 35:66, 35:68:01-35:68:02, 35:99, 35:118-35:119, 35:174 ⁹	B35, Null, -												12						18						
*18:37	-											11	12			15									
*18:44	-				4								12			15			18						
*18:48	-												12			15									
*18:49	-												12			15									
*18:54	-												12	13		15				20					
*18:56	-												12	13		15			18						
*18:66	-												12			15									
*18:67	-												12			15									
*27:01	B27					5											16								
*27:02:01-27:02:02, 27:53, 27:57, 27:65N, 27:83	B27, Null, -					5											16								
*27:03-27:05:15, 27:05:17-27:06, 27:09-27:10, 27:13, 27:17, 27:20, 27:27, 27:31, 27:35-27:37, 27:45-27:46, 27:48-27:51, 27:54-27:56, 27:58, 27:60-27:61, 27:64N, 27:66N, 27:68-27:69, 27:72-27:74, 27:78-27:80, 27:82, 27:84-27:86	B27, Null, -					5											16								
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	
																			44			47		Negative Control	B18, Null, -	*18:01:01-18:03, 18:05-18:08, 18:10-18:11, 18:13-18:15, 18:17N-18:18, 18:20-18:21, 18:23N-18:25, 18:27-18:28, 18:30-18:36, 18:38-18:40, 18:42-18:43, 18:45-18:47, 18:50-18:53, 18:55, 18:57-18:60, 18:62-18:65, 18:68
														40				44			47		B18		*18:04	
																		44		46			B18		*18:09	
												38									47		-		*18:12	
																		44	45		47		-		*18:19	
						31													44			47			-	*18:22
																			44			47			-	*18:26, 18:41, 18:61
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																						47			-	*18:37
																			44			47			-	*18:44
26												37										47			-	*18:48
																			44			47			-	*18:49
																			44		46				-	*18:54
																			44			47			-	*18:56
																						47			-	*18:66
											36								44		46				-	*18:67
			28			w						38										46			B27	*27:01
			28			32				36		38										46			B27, Null, -	*27:02:01-27:02:02, 27:53, 27:57, 27:65N, 27:83
			28			32						38										46			B27, Null, -	*27:03-27:05:15, 27:05:17-27:06, 27:09-27:10, 27:13, 27:17, 27:20, 27:27, 27:31, 27:35-27:37, 27:45-27:46, 27:48-27:51, 27:54-27:56, 27:58, 27:60-27:61, 27:64N, 27:66N, 27:68-27:69, 27:72-27:74, 27:78-27:80, 27:82, 27:84-27:86
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48			Well No.

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*27:05:16, 27:07:01- 27:07:02, 27:11, 27:15, 27:21, 27:28, 27:32, 27:34, 27:38, 27:43, 27:47, 27:63, 27:70- 27:71, 27:76	B27, -																16								
*27:08, 27:26, 27:40, 27:42, 27:44	B2708, -					5											16								
*27:12	B27					5											16								
*27:14, 27:81	B27, -																16							24	
*27:16, 27:39, 27:59N	Null, -					5											16								
*27:18	-					5						11					16								
*27:19	B27																16	17							
*27:23	-					5											16								
*27:24	-																16								
*27:25	-																16								
*27:29	B27					5						11					16								
*27:30	B27																16	17							
*27:33	-																16								
*27:41	-					5							12				16								
*27:52, 27:67	-					5																			
*27:62	-																16								
*27:75	-					5																			
*27:77	-					5											16								
*35:01:01-35:01:09, 35:01:11-35:01:29, 35:07- 35:08:04, 35:11:01- 35:11:02, 35:15, 35:20:01- 35:20:02, 35:23, 35:29, 35:40N-35:42:01, 35:48, 35:50, 35:52, 35:54, 35:57, 35:61, 35:77- 35:78, 35:82, 35:90- 35:94, 35:100-35:101:02, 35:103-35:105, 35:107- 35:108:02, 35:110- 35:112, 35:116, 35:120- 35:124, 35:126, 35:130N- 35:134N, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173N, 35:175-35:178, 35:180	B35, Null, -												12					17	18						
*35:01:10	B35									9			12					17	18						
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	
			28				32						38								46			Negative Control	B27, -	*27:05:16, 27:07:01-27:07:02, 27:11, 27:15, 27:21, 27:28, 27:32, 27:34, 27:38, 27:43, 27:47, 27:63, 27:70-27:71, 27:76
			28				32						38									47	B2708, -		*27:08, 27:26, 27:40, 27:42, 27:44	
													38									47	B27		*27:12	
			28				32						38								46		B27, -		*27:14, 27:81	
													38								46		Null, -		*27:16, 27:39, 27:59N	
													38									47	-		*27:18	
			28				32						38								46		B27		*27:19	
																					46		-		*27:23	
			28				32	33					38								46		-		*27:24	
			28				32						38							45	46		-		*27:25	
													38								46		B27		*27:29	
			28				32				36		38								46		B27		*27:30	
			28				32						38									47	-		*27:33	
			28				32						38								46		-		*27:41	
			28				32						38								46		-		*27:52, 27:67	
			28				32				36		38								46		-		*27:62	
			28				32				36		38							45	46		-		*27:75	
											36		38								46		-		*27:77	
																			44			47	B35, Null, -		*35:01:01:01-35:01:09, 35:01:11-35:01:29, 35:07-35:08:04, 35:11:01-35:11:02, 35:15, 35:20:01-35:20:02, 35:23, 35:29, 35:40N-35:42:01, 35:48, 35:50, 35:52, 35:54, 35:57, 35:61, 35:77-35:78, 35:82, 35:90-35:94, 35:100-35:101:02, 35:103-35:105, 35:107-35:108:02, 35:110-35:112, 35:116, 35:120-35:124, 35:126, 35:130N-35:134N, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173N, 35:175-35:178, 35:180	
																			44			47			B35	*35:01:10
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*35:02:01-35:03:02, 35:03:04-35:04:01, 35:04:03, 35:06, 35:12:01- 35:12:03, 35:33-35:34, 35:36, 35:39, 35:55, 35:59, 35:65Q, 35:70, 35:74, 35:83-35:85, 35:95, 35:98, 35:106, 35:128-35:129N, 35:136, 35:149-35:150, 35:152- 35:153, 35:155-35:156, 35:160, 35:162, 35:167, 35:172, 35:179, 35:181- 35:184	B35, Null, -																	17	18						
*35:03:03, 35:56	B35, -																	17							
*35:04:02	B35									9								17	18						
*35:05:01-35:05:02, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114	B35, -			3								12							18						
*35:08:05	-											12						17							
*35:09:01-35:09:03, 35:18, 35:31, 35:75, 35:88, 35:127, 35:151	B35, -																		18						
*35:10, 35:28, 35:69, 35:80	B35, -											12						17	18						
*35:13	B35																	17	18						
*35:14:01-35:14:02, 35:62	B35, -											12						17	18						
*35:16	B35			3								12						17	18						
*35:17, 35:30, 35:113, 35:125	B35, -			3								12						17	18						
*35:19	B35											12						17							
*35:21, 35:24:01-35:24:02	-											12						17	18						
*35:22	-			3															18						
*35:25, 35:49	B35, -											12						17							
*35:26	-					6						12						17							
*35:27	B35											12						17							
*35:35	B35											12						17	18		21				
*35:38, 35:169	-																	17	18						
*35:42:02	-											12						17	18						
*35:43:01, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135	B35, -											12							18						
*35:44	B35																		18						
*35:45, 35:71	-											12	13					17	18						
*35:46	B35				4							12						17							
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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																			44			47		B35, Null, -	*35:02:01-35:03:02, 35:03:04-35:04:01, 35:04:03, 35:06, 35:12:01 35:12:03, 35:33-35:34, 35:36, 35:39, 35:55, 35:59, 35:65Q, 35:70, 35:74, 35:83-35:85, 35:95, 35:98, 35:106, 35:128-35:129N, 35:136, 35:149-35:150, 35:152-35:153, 35:155-35:156, 35:160, 35:162, 35:167, 35:172, 35:179, 35:181-35:184
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																			44			47		B35, -	*35:05:01-35:05:02, 35:51, 35:58, 35:72, 35:89, 35:97, 35:114
															40							47		-	*35:08:05
																			44			47		B35, -	*35:09:01-35:09:03, 35:18, 35:31, 35:75, 35:88, 35:127, 35:151
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						31													44			47		-	*35:21, 35:24:01-35:24:02
																			44			47		-	*35:22
																						47		B35, -	*35:25, 35:49
																						47		-	*35:26
																			44			47		B35	*35:27
																			44			47		B35	*35:35
				29															44			47		-	*35:38, 35:169
															40				44			47		-	*35:42:02
																			44	45		47		B35, -	*35:43:01, 35:67, 35:79, 35:86, 35:102, 35:117, 35:135
																			44	45		47		B35	*35:44
				29															44			47		-	*35:45, 35:71
								33														47		B35	*35:46
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*35:47	-				4								12					17							
*35:60	B35																		18						
*35:63	-				4								12					17							
*35:76	B35, 22												12					17	18						
*35:81, 35:96, 35:109, 35:157	-																	17	18						
*35:87	-								8										18						
*35:115	-												12					17	18						
*35:154	-				4													17							
*35:163	-																	17	18						
*35:164	-				3													17	18						
*35:43:02	-												12						18						
*35:186	-												12					17	18						
*37:01:01-37:01:07, 37:03N, 37:06, 37:13, 37:15-37:21, 37:23-37:27, 37:30N-37:31	B37, Null, -													13				17			20				
*37:01:08, 37:09	B37, -													13							20				
*37:02	-					5								13							20				
*37:04:01-37:04:02	B37, -													13				17			20				
*37:05	-													13				17			20				
*37:07	-	1												13							20				
*37:08	B37													13				17			20				
*37:10, 37:22, 37:29	B37, -																	17			20				
*37:11	-																	17	18		20				
*37:12	-								8					13							20				
*37:14	-																	17			20				
*37:28	-											11		13				17			20				
*38:01:01-38:02:02, 38:08- 38:09, 38:11-38:16, 38:18- 38:19, 38:21, 38:23- 38:24, 38:27-38:29, 38:31- 38:32, 38:34N	B38(16) , B16, Null, -					5																21	22	23	
*38:02:03	-																					21		23	
*38:03	B16					5						11										21	22		
*38:04, 38:25	-																					21		23	
*38:05, 38:33	B38(16) , -						6															21	22	23	
*38:06	-																					21			
*38:07	-					5																21			
*38:10, 38:36-38:37	-					5																	22	23	
*38:17	-					5								13							20	21	22	23	
*38:20	-					5												17				21	22	23	
*38:22	-					5											16						22	23	
*38:26	-					5																21	22		
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	
												37										47		-	*35:47
														40					44			47		B35	*35:60
												37	38									47		-	*35:63
			28				32												w			47		B35, 22	*35:76
						31													44			47		-	*35:81, 35:96, 35:109, 35:157
		27																	44			47		-	*35:87
				29															44			47		-	*35:115
												37								45		47		-	*35:154
																			44			47		-	*35:163
																			44			47		-	*35:164
														40					44	45		47		-	*35:43:02
			28				32															47		-	*35:186
				29									38									46		B37, Null, -	*37:01:01-37:01:07, 37:03N, 37:06, 37:13, 37:15-37:21, 37:23-37:27, 37:30N-37:31
												38										46		B37, -	*37:01:08, 37:09
												38										46		-	*37:02
				29		31						38										46		B37, -	*37:04:01-37:04:02
				29								38										47		-	*37:05
												38										46		-	*37:07
				29															44			46		B37	*37:08
				29								38										46		B37, -	*37:10, 37:22, 37:29
				29								38										47		-	*37:11
				29								38										46		-	*37:12
				29								38										46 w		-	*37:14
				29								38										46		-	*37:28
																						46		B38(16) , B16, Null, -	*38:01:01-38:02:02, 38:08 38:09, 38:11-38:16, 38:18 38:19, 38:21, 38:23- 38:24, 38:27-38:29, 38:31 38:32, 38:34N
																						46		-	*38:02:03
												38										46		B16	*38:03
												38										46		-	*38:04, 38:25
																						46		B38(16) , -	*38:05, 38:33
																			44			46		-	*38:06
																			44			46		-	*38:07
																						46		-	*38:10, 38:36-38:37
																						46		-	*38:17
																						46		-	*38:20
																						46		-	*38:22
				28																		46		-	*38:26
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

Negative Control

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot-specific information

Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*38:30	-					5			8														22	23	
*38:35	-					5																21		23	
*39:01:01:01- 39:01:01:02L, 39:01:03- 39:01:08, 39:01:10- 39:01:12, 39:03, 39:05:01- 39:06:02, 39:09, 39:11, 39:14-39:15, 39:24:01, 39:26-39:29, 39:31, 39:35, 39:37-39:38Q, 39:40N-39:41, 39:44, 39:46, 39:48, 39:51- 39:57, 39:59-39:62, 39:64- 39:68	B3901, Low B39, B39(16) , Null, -					5																21		23	24
*39:01:09, 39:12, 39:45	B3901, B39(16) , -																					21		23	24
*39:02:01, 39:08	B3902, B39(16)					5						11										21			24
*39:02:02, 39:13:01- 39:13:02, 39:23, 39:49	B3902, B39(16) , -											11										21			24
*39:04	B39(16)						6															21		23	24
*39:07	-					5						12										21		23	24
*39:10:01-39:10:02, 39:16, 39:20	B39(16) , -																					21			24
*39:17	-																					21			24
*39:18	-					5																21		23	24
*39:19:01	B39(16)																		18			21		23	24
*39:19:02	B39(16)					5													18			21		23	24
*39:22	-					5																21		23	24
*39:24:02	-					5																21		23	
*39:36	-					5																		23	24
*39:39	-					5						11										21			24
*39:42	-					5												17				21		23	24
*39:43	-					5						12												23	24
*39:58	-					5																21			24
*39:63	-																					21			24
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.		
																					46			-	*38:30		
																					46			-	*38:35		
																						47	Negative Control	B3901, Low B39, B39(16), Null, -	*39:01:01:01-39:01:01:02L, 39:01:03-39:01:08, 39:01:10-39:01:12, 39:03, 39:05:01-39:06:02, 39:09, 39:11, 39:14-39:15, 39:24:01, 39:26-39:29, 39:31, 39:35, 39:37-39:38Q, 39:40N-39:41, 39:44, 39:46, 39:48, 39:51-39:57, 39:59-39:62, 39:64-39:68		
																						47		B3901, B39(16), -	*39:01:09, 39:12, 39:45		
												38												47	B3902, B39(16)	*39:02:01, 39:08	
												38												47	B3902, B39(16), -	*39:02:02, 39:13:01-39:13:02, 39:23, 39:49	
																								47	B39(16)	*39:04	
																									47	-	*39:07
																									47	B39(16), -	*39:10:01-39:10:02, 39:16, 39:20
														40			43								47	-	*39:17
																					45				47	-	*39:18
																			44						47	B39(16)	*39:19:01
																			44						47	B39(16)	*39:19:02
												38													47	-	*39:22
																									47	-	*39:24:02
																					45				47	-	*39:36
																									47	-	*39:39
																									47	-	*39:42
																									47	-	*39:43
																									47	-	*39:58
														40											47	-	*39:63
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47		48		Well No.	

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*40:01:01-40:01:06, 40:01:08-40:01:10, 40:01:12-40:01:17, 40:01:19-40:01:23, 40:07, 40:51, 40:66, 40:73, 40:79, 40:124:01, 40:139- 40:140, 40:146-40:147, 40:150, 40:152-40:153, 40:155N	B60(40) , Null, -				4																				24
*40:01:07, 40:01:18, 40:72:01, 40:77	B60(40) , -				4																				24
*40:01:11	-				4																				24
*40:02:01-40:02:12, 40:04, 40:39, 40:89, 40:94, 40:97, 40:122, 40:142N-40:144N	B61(40) , B41, Null, -																								
*40:03, 40:20	B61(40)												12												
*40:05	B4005			3																					
*40:06:01:01-40:06:04, 40:70	B61(40) , -																								24
*40:08	-																								
*40:09, 40:11:01- 40:11:02, 40:18, 40:24, 40:27:01-40:27:02, 40:29, 40:35, 40:37, 40:50, 40:56-40:57, 40:64, 40:78, 40:82, 40:85, 40:90-40:91, 40:99, 40:104, 40:107, 40:111, 40:115, 40:119-40:120, 40:133Q, 40:145, 40:169, 40:173, 40:176, 40:180	B61(40) , B40, -																								?
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.
25												37	38									47	Negative Control	B60(40) , Null, -	*40:01:01-40:01:06, 40:01:08-40:01:10, 40:01:12-40:01:17, 40:01:19-40:01:23, 40:07, 40:51, 40:66, 40:73, 40:79, 40:124:01, 40:139- 40:140, 40:146-40:147, 40:150, 40:152-40:153, 40:155N
																									B60(40) , -
25											37	38	40								47	-		*40:01:11	
26												37	38									47		B61(40) , B41, Null, -	*40:02:01-40:02:12, 40:04, 40:39, 40:89, 40:94, 40:97, 40:122, 40:142N-40:144N
	26													37	38										47
26												37	38									47		B4005	*40:05
26												37	38									47		B61(40) , -	*40:06:01:01-40:06:04, 40:70
	26													37											47
?												37	38									47		B61(40) , B40, -	*40:09, 40:11:01- 40:11:02, 40:18, 40:24, 40:27:01-40:27:02, 40:29, 40:35, 40:37, 40:50, 40:56-40:57, 40:64, 40:78, 40:82, 40:85, 40:90-40:91, 40:99, 40:104, 40:107, 40:111, 40:115, 40:119-40:120, 40:133Q, 40:145, 40:169, 40:173, 40:176, 40:180
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **72N**

Lot-specific information

Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*40:10:01-40:10:02, 40:22N, 40:30, 40:33- 40:34, 40:36, 40:42- 40:43, 40:49, 40:54- 40:55, 40:61-40:63, 40:65, 40:67, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:108, 40:112-40:114, 40:116, 40:118N, 40:123, 40:124:02-40:126, 40:128, 40:130, 40:134, 40:141, 40:151, 40:154, 40:156, 40:160, 40:163, 40:168, 40:171-40:172, 40:175, 40:179	B60(40) , Null, -				4																				?
*40:12	-								8			11								19					
*40:13	-																								
*40:14:01-40:14:03, 40:121, 40:129, 40:164	B60(40) , -				4																				?
*40:15, 40:32	-	1			4																				?
*40:16	B61(40)	1			4																				24
*40:19	-																								
*40:21, 40:137	-																								?
*40:23	-	1			4																				24
*40:25, 40:69, 40:106	-				4																				?
*40:26	B21									9															?
*40:28	-									9								17							?
*40:31, 40:45, 40:80	B60(40) , -				4																				?
*40:38, 40:52	B60(40) , -				4							12													?
*40:40	-																								
*40:44, 40:75, 40:86, 40:103, 40:127, 40:131, 40:162, 40:165, 40:167	-																								24
*40:46	-										11					16									?
*40:47	B40				4																				
*40:48	B60(40)				4						10														?
*40:53, 40:72:02	B61(40) , -				4																				24
*40:58	-				4																				?
*40:59-40:60	-				4							12													24
*40:68	-																								?
*40:71	-				3																				?
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	
25	?											37	38									47		B60(40) , Null, -	*40:10:01-40:10:02, 40:22N, 40:30, 40:33- 40:34, 40:36, 40:42- 40:43, 40:49, 40:54- 40:55, 40:61-40:63, 40:65, 40:67, 40:81, 40:84, 40:87:01-40:88, 40:92, 40:100-40:102, 40:108, 40:112-40:114, 40:116, 40:118N, 40:123, 40:124:02-40:126, 40:128, 40:130, 40:134, 40:141, 40:151, 40:154, 40:156, 40:160, 40:163, 40:168, 40:171-40:172, 40:175, 40:179
25												38										47		-	*40:12
	26								34		36		38									46		-	*40:13
	?											37	38									47		B60(40) , -	*40:14:01-40:14:03, 40:121, 40:129, 40:164
	?											37	38									47		-	*40:15, 40:32
												37	38									47		B61(40)	*40:16
	?								34		36		38									46		-	*40:19
25												38										47		-	*40:21, 40:137
25												37	38									47		-	*40:23
25	?											37										47		-	*40:25, 40:69, 40:106
	?											37	38									47		B21	*40:26
	?					31						37	38									47		-	*40:28
	?							33				37	38									47		B60(40) , -	*40:31, 40:45, 40:80
25	?											37	38									47		B60(40) , -	*40:38, 40:52
												37	38									47		-	*40:40
	?											37	38									47		-	*40:44, 40:75, 40:86, 40:103, 40:127, 40:131, 40:162, 40:165, 40:167
25												38										47		-	*40:46
25	?											38										46		B40	*40:47
25	?											37	38					43				47		B60(40)	*40:48
	?											37	38									47		B61(40) , -	*40:53, 40:72:02
	?											37	38		40							47		-	*40:58
25												37	38									47		-	*40:59-40:60
	?											37										47		-	*40:68
	?											37	38			41		43				47		-	*40:71
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **72N**

Lot-specific information

Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*40:74, 40:149	-																								?
*40:76	-				4																				
*40:83, 40:177	-																								24
*40:93	-											11				16									24
*40:95	-																								?
*40:96	-																								24
*40:98	-	1																							?
*40:105	-												12												?
*40:109	-																								24
*40:110	-				4																				24
*40:117	-				4																				
*40:132, 40:178	-				4																				?
*40:135	-				4																				
*40:136	-	1			4				8							14									?
*40:138	-																								24
*40:148, 40:161	-																								24
*40:157	-																								
*40:158	-	1			4								12												?
*40:159	-												12												24
*40:166	-				4																				?
*40:170	-																								?
*40:174	-			3																					?
*41:01, 41:06-41:07, 41:12, 41:14, 41:16-41:17	B41, -				4				8																24
*41:02:01-41:03:02, 41:11, 41:13, 41:15, 41:19	B41, -				4				8																24
*41:04, 41:10, 41:18	-				4																				24
*41:05	-				4				8																24
*41:08	-	1			4				8							14									24
*41:09, 45:02-45:03 ¹⁰	-				4				8																24
*42:01:01-42:02, 42:06, 42:10, 42:12, 42:14-42:15	B42, -								8																24
*42:04	-								8																24
*42:05:01-42:05:02	-	1							8							14									24
*42:08	-								8																24
*42:09	-												12												24
*42:11	-								8				11												24
*42:13	-								8																24
*42:16	-																								24
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	
25	?											37	38									47	Negative Control	-	*40:74, 40:149	
25	?											38												-	*40:76	
												37	38									47		-	*40:83, 40:177	
												38										47		-	*40:93	
	?									35		37	38									47		-	*40:95	
	?											38									46			-	*40:96	
	?											37	38									47		-	*40:98	
	?											37	38									47		-	*40:105	
	?											34	36									46			-	*40:109
	?											38										46			-	*40:110
25	?									34	36	38										46			-	*40:117
25	?			29								37	38									47		-	*40:132, 40:178	
25	?											37	38									47		-	*40:135	
	?	27										37	38									47		-	*40:136	
25												37	38									47		-	*40:138	
	?									35		37	38									47		-	*40:148, 40:161	
	?											38									46			-	*40:157	
	?											37	38									47		-	*40:158	
	?											37	38									47		-	*40:159	
25	?		28									37										47		-	*40:166	
25												37	38									47		-	*40:170	
	?											37	38									47		-	*40:174	
		27		30								37	38									47		Negative Control	B41, -	*41:01, 41:06-41:07, 41:12, 41:14, 41:16-41:17
		27										37	38									47			B41, -	*41:02:01-41:03:02, 41:11, 41:13, 41:15, 41:19
		27										37	38									47			-	*41:04, 41:10, 41:18
		27		30								?	38									47			-	*41:05
		27										37	38									47			-	*41:08
				30								37	38									47			-	*41:09, 45:02-45:03 ¹⁰
		27	28																			47			B42, -	*42:01:01-42:02, 42:06, 42:10, 42:12, 42:14-42:15
		27	28		30																	47			-	*42:04
		27	28																			47	-		*42:05:01-42:05:02	
			28																			47	-		*42:08	
		27	28																			47	-		*42:09	
		27										38										47	-		*42:11	
		27	28	29																		47	-		*42:13	
		27	28																			47	-		*42:16	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*44:02:01:01-44:02:21, 44:11, 44:19N, 44:21- 44:24, 44:27:01-44:27:02, 44:33-44:34, 44:48, 44:52N, 44:55, 44:59, 44:63, 44:66-44:68, 44:71- 44:74, 44:80, 44:84, 44:86-44:87, 44:89, 44:93, 44:101-44:102, 44:104, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126, 44:137	B44(12) , Null, -				4													17							
*44:03:01-44:03:06, 44:03:08-44:05:03, 44:13, 44:26, 44:28:01-44:30, 44:32, 44:35-44:36, 44:38- 44:39, 44:42, 44:45, 44:51, 44:56N, 44:58N, 44:61N, 44:69-44:70, 44:76-44:79, 44:82, 44:85, 44:88, 44:92, 44:94, 44:96, 44:98, 44:105, 44:107-44:109, 44:114-44:115, 44:117, 44:120, 44:122-44:125, 44:128, 44:133, 44:136	B44(12) , B21, Null, -				4													17							
*44:03:07, 44:07, 44:81, 44:103, 44:111, 44:134	B44(12) , -																	17							
*44:06	B44(12)																	17							
*44:08	B44(12)			w														17							
*44:09	B45(12)				4													17							
*44:10	B44(12)				4							11						17							
*44:12	B44(12)				4													17							
*44:14	B44(12)				4				8									17							
*44:15	B12				4				8			11													
*44:16, 44:91, 44:132	B47, -				4		6											17							
*44:17, 44:43:01-44:43:02	B44(12) , -				4								12	13				17							
*44:18	-				4				8			11													
*44:20, 44:100	-				4				8																
*44:25, 44:50	-				4													17							
*44:31	B44(12)				4																				
*44:37, 44:64:01-44:64:02	-				4		6											17							
*44:40, 44:130	B44(12) , -											11					16	17							
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.503-48/12 – including *Taq* pol., IFU-01
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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	
				29									38	39							46			Negative Control	B44(12) , Null, -	*44:02:01:01-44:02:21, 44:11, 44:19N, 44:21-44:24, 44:27:01-44:27:02, 44:33-44:34, 44:48, 44:52N, 44:55, 44:59, 44:63, 44:66-44:68, 44:71 44:74, 44:80, 44:84, 44:86-44:87, 44:89, 44:93, 44:101-44:102, 44:104, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126, 44:137
				29									38								46				B44(12) , B21, Null, -	*44:03:01-44:03:06, 44:03:08-44:05:03, 44:13, 44:26, 44:28:01-44:30, 44:32, 44:35-44:36, 44:38 44:39, 44:42, 44:45, 44:51, 44:56N, 44:58N, 44:61N, 44:69-44:70, 44:76-44:79, 44:82, 44:85, 44:88, 44:92, 44:94, 44:96, 44:98, 44:105, 44:107-44:109, 44:114-44:115, 44:117, 44:120, 44:122-44:125, 44:128, 44:133, 44:136
				29									38								46				B44(12) , -	*44:03:07, 44:07, 44:81, 44:103, 44:111, 44:134
				29	30						36			39					44		46				B44(12)	*44:06
				29									38	39							46				B44(12)	*44:08
				29								37	38	39								47			B45(12)	*44:09
				29									38			41					46				B44(12)	*44:10
				29										39							46				B44(12)	*44:12
				29									38								46				B44(12)	*44:14
					30								38			41					46				B12	*44:15
				29									38	39							46				B47, -	*44:16, 44:91, 44:132
				29									38								46				B44(12) , -	*44:17, 44:43:01-44:43:02
					30				34				38			41					46				-	*44:18
				29	30								38	39							46				-	*44:20, 44:100
				29					34		36		38								46				-	*44:25, 44:50
25				29									38								46				B44(12)	*44:31
													38								46				-	*44:37, 44:64:01-44:64:02
				29									38								46				B44(12) , -	*44:40, 44:130
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48			Well No.

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 101.503-48u/12u – without *Taq* pol., IFU-02

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*44:41:01-44:41:02, 44:53, 44:99, 44:138Q	B44(12) , -				4																				
*44:44	-										11					16	17								
*44:46, 44:75, 44:129	-				4													17							
*44:47, 44:65	-				4																				
*44:49	-		2		4													17							
*44:54	B44(12)			3	4																				
*44:57	-			w														17							
*44:60, 44:110	-			3	4													17							
*44:62	-				4				8	9								17							
*44:83	-																	17							
*44:90	-				4													17							
*44:95	-				4													17							
*44:97	-				4													17							
*44:106	-			3	4																				
*44:127	-				4													17							
*44:131	-																	17							
*44:139	-				4													17							
*45:01, 45:05, 45:07, 45:11-45:13	B45(12) , -				4				8			11													24
*45:04	-				4				8																24
*45:06	-				4				8			11													24
*45:08	-				4				8																24
*45:09	-				4				8				12	13											24
*45:10	-				4				8		10														24
*46:01:01-46:01:07, 46:04- 46:05, 46:07N, 46:09- 46:10, 46:14-46:16, 46:20, 46:22-46:24, 46:27- 46:30	B46, Null, -							7					12												
*46:02	B46							7					12												
*46:03, 46:08, 46:13:01- 46:13:03, 46:19, 46:21:01- 46:21:02, 46:25-46:26	B46, -							7					12												
*46:06	-							7					12												
*46:11	-							7																	
*46:12	-			3				7					12												
*46:17	-							7					12	13											
*46:18	-							7																	
*47:01:01-47:01:02, 47:06-47:08	B47, -				4																				
*47:02	B47				4																				
*47:03	B47				4																				
*47:04-47:05	-				4	5																			
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

101.503-48/12 – including *Taq* pol., IFU-01
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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.		
				29									38	39							46			Negative Control	B44(12)	*44:41:01-44:41:02, 44:53, 44:99, 44:138Q	
				29									38	39							46				-	*44:44	
				29								37	38									47			-	*44:46, 44:75, 44:129	
				29									38								46				-	*44:47, 44:65	
				29									38	39							46				-	*44:49	
				29									38								46				B44(12)	*44:54	
				29									38								46				-	*44:57	
				29									38								46				-	*44:60, 44:110	
				29									38								46				-	*44:62	
				29									38	39							46				-	*44:83	
			28	29			32					37	38	39								47			-	*44:90	
				29					34		36		38	39							46				-	*44:95	
			28	29			32						38	39							46				-	*44:97	
				29									38	39							46				-	*44:106	
				29									38	39											-	*44:127	
				29								37	38	39								47			-	*44:131	
w				29									38								46				-	*44:139	
					30							37	38			41						47			Negative Control	B45(12)	*45:01, 45:05, 45:07, 45:11-45:13
					30							37	38			41						47				-	*45:04
			28		30							37	38			41						47				-	*45:06
					30							37	38		40							47		-		*45:08	
					30							37	38									47		-		*45:09	
					30							37	38									47		-		*45:10	
			28				31														45	47		B46, Null, -	*46:01:01-46:01:07, 46:04 46:05, 46:07N, 46:09-46:10, 46:14-46:16, 46:20, 46:22-46:24, 46:27 46:30		
		w					31														45	47			B46	*46:02	
			28				31																47		B46, -	*46:03, 46:08, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02, 46:25-46:26	
25			28				31															47		-	*46:06		
			28				31									41						47		-	*46:11		
			28				31														45	47		-	*46:12		
			28				31														45	47		-	*46:17		
			28				31								40							47		-	*46:18		
26							32						38								46			B47, -	*47:01:01:01-47:01:02, 47:06-47:08		
26							32					37	38									47		B47	*47:02		
26							32					w	38								46	w		B47	*47:03		
26													38								46			-	*47:04-47:05		
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.		

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*48:01:01-48:01:03, 48:04, 48:07, 48:09, 48:11, 48:19-48:20, 48:22, 48:24, 48:27	B48, -											11													24
*48:02:01-48:02:02, 48:25	B48, -											11	12					17							24
*48:03:01-48:03:02, 48:17	B48, B48, 40											11													24
*48:05, 48:08	B48, -	1										11													24
*48:06	-																								24
*48:10, 48:12-48:13	B48, -											11													24
*48:14	-											11	12												24
*48:15	-	1										11													24
*48:16	-											11													24
*48:18	-											11													
*48:21, 48:26	-					5						11													24
*48:23	-											11	12												24
*49:01:01, 49:01:03, 49:06, 49:08-49:10, 49:12- 49:17, 49:19N	B49(21) , Null, -				4																				
*49:01:02, 49:11	B49(21) , -				4																				
*49:02	B49(21)				4																				
*49:03	-																								
*49:04-49:05	B49(21) , -				4								12												
*49:07	-				4						10														
*49:18	-				4					9															
*49:20	-				4							11													
*50:01:01-50:01:03, 50:04- 50:05, 50:08, 50:10- 50:11, 50:13	B50(21) , -				4																				24
*50:02	B45(12)				4							11													24
*50:06	-				4																				24
*50:07	-																								24
*50:09	-				4																				24
*50:12	-				4																				24
*50:14	-				4					9															24
*50:15	-				4																				24
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	
								33					38									47	Negative Control	B48, -	*48:01:01-48:01:03, 48:04, 48:07, 48:09, 48:11, 48:19-48:20, 48:22, 48:24, 48:27	
												38										47		B48, -	*48:02:01-48:02:02, 48:25	
25												38										47		B48, B48, 40	*48:03:01-48:03:02, 48:17	
												38										47		B48, -	*48:05, 48:08	
								33														47		-	*48:06	
												38										47		B48, -	*48:10, 48:12-48:13	
												38										47		-	*48:14	
								33				38										47		-	*48:15	
								33														47		-	*48:16	
								33				38									46			-	*48:18	
												38										47		-	*48:21, 48:26	
25												38										47		-	*48:23	
									34	35			38			41						46			B49(21), Null, -	*49:01:01, 49:01:03, 49:06, 49:08-49:10, 49:12 49:17, 49:19N
									34				38			41						46			B49(21), -	*49:01:02, 49:11
										35			38			41						46			B49(21)	*49:02
										35			38			41						46			-	*49:03
									34	35			38									46			B49(21), -	*49:04-49:05
									34	35			38									46			-	*49:07
									34	35			38									46			-	*49:18
									34	35			38			41						46			-	*49:20
										35		37	38			41						47		B50(21), -	*50:01:01-50:01:03, 50:04 50:05, 50:08, 50:10-50:11, 50:13	
										35		37	38			41						47		B45(12)	*50:02	
										35			38			41						47		-	*50:06	
										35		37	38			41						47		-	*50:07	
										35		37	38									47		-	*50:09	
												37	38			41						47		-	*50:12	
										35		37	38									47		-	*50:14	
										35		37				41						47		-	*50:15	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*51:01:01, 51:01:03, 51:01:05-51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26-51:02:01, 51:02:03, 51:02:05-51:03, 51:07:01, 51:09:01, 51:11N-51:12, 51:13:02-51:14, 51:16-51:19, 51:21-51:23, 51:26-51:33, 51:38-51:41N, 51:43, 51:48-51:53, 51:55, 51:57-51:58, 51:60, 51:65-51:67, 51:69-51:77, 51:79-51:80, 51:82-51:88, 51:90-51:91, 51:94-51:96, 51:98N, 51:100, 51:102, 51:105, 51:107-51:111, 51:113-51:115, 51:117, 51:120-51:126	B51(5), B5102, B5103, Null, -									9															
*51:01:02, 51:02:02, 51:05, 51:07:02, 51:09:02, 51:89, 51:103, 51:116, 51:119	B51(5), B5102, -									9															
*51:01:04, 51:02:04, 51:13:01, 51:24:01, 51:34-51:35, 51:92, 51:99	B51(5), B5102, -																								
*51:01:09	B51(5)									9															24
*51:01:21, 51:01:25, 51:24:03-51:24:04	B51(5), -									9															24
*51:04, 51:46, 51:56:01-51:56:02	B51(5), -									9								17							
*51:06:01-51:06:02, 51:59	B51(5), -									9															
*51:08, 51:20, 51:44N	B51(5), - , Null								8	9															
*51:10	-																								24
*51:15	-																								
*51:24:02	B51(5)																								24
*51:36	-								8																
*51:37, 51:63	-									9			12												
*51:42	B44(12)																	17							
*51:45	-												12												
*51:54, 51:78	-									9															
*51:61	-									9															
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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 101.503-48u/12u – without *Taq* pol., IFU-02

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.		
					30					35	36								44		46			Negative Control	B51(5), B5102, B5103, Null, -	*51:01:01, 51:01:03, 51:01:05-51:01:08, 51:01:10-51:01:20, 51:01:22-51:01:24, 51:01:26-51:02:01, 51:02:03, 51:02:05-51:03, 51:07:01, 51:09:01, 51:11N-51:12, 51:13:02-51:14, 51:16-51:19, 51:21-51:23, 51:26-51:33, 51:38-51:41N, 51:43, 51:48-51:53, 51:55, 51:57-51:58, 51:60, 51:65-51:67, 51:69-51:77, 51:79-51:80, 51:82-51:88, 51:90-51:91, 51:94-51:96, 51:98N, 51:100, 51:102, 51:105, 51:107-51:111, 51:113-51:115, 51:117, 51:120-51:126	
										35	36								44		46				B51(5), B5102, -	*51:01:02, 51:02:02, 51:05, 51:07:02, 51:09:02, 51:89, 51:103, 51:116, 51:119	
					30					35	36								44		46					B51(5), B5102, -	*51:01:04, 51:02:04, 51:13:01, 51:24:01, 51:34-51:35, 51:92, 51:99
										35	36								44		46					B51(5)	*51:01:09
					30					35	36								44		46					B51(5),	*51:01:21, 51:01:25, 51:24:03-51:24:04
					30	31					36								44		46					B51(5),	*51:04, 51:46, 51:56:01-51:56:02
					30						36								44		46					B51(5),	*51:06:01-51:06:02, 51:59
					30					35	36								44		46					B51(5),	*51:08, 51:20, 51:44N
					30						36								44		46					-	*51:10
											36					41			44		46					-	*51:15
					30					35	36								44		46					B51(5)	*51:24:02
					30					35	36								44		46					-	*51:36
					30					35	36								44		46					-	*51:37, 51:63
					29	30					36								44		46					B44(12)	*51:42
					30						36								44		46					-	*51:45
										35									44		46					-	*51:54, 51:78
					30					w	36								44	45	46					-	*51:61
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48			Well No.	

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*51:62	-																								
*51:64	-			3						9															
*51:68	-		2							9															
*51:81	-																								
*51:93	-																								
*51:97	-								8	9		12													
*51:101	-									9												21			
*51:104, 51:118N	Null, -									9															
*51:106	-									9															
*51:112	-									9															
*52:01:01:01-52:01:01:02, 52:01:03, 52:01:06- 52:01:08, 52:04-52:05, 52:07-52:08, 52:10:01- 52:13, 52:15, 52:17- 52:18, 52:22-52:24, 52:27	B52(5), -									9															
*52:01:02, 52:01:04, 52:01:09, 52:02-52:03, 52:06:01-52:06:02, 52:09	B52(5), -									9															
*52:01:05, 52:14	B52(5), -																								
*52:01:10	-									9													22		
*52:16	-									9		11													
*52:19	-								8	9															
*52:20	-									9															
*52:21	-									9															
*52:25	-																								
*52:26	-					6				9															
*53:01:01-53:01:05, 53:05, 53:08:01-53:08:02, 53:10, 53:15-53:16, 53:18, 53:20-53:21, 53:23- 53:27	B53, -											12						17							
*53:02	-											12						17							
*53:03, 53:09, 53:11- 53:13	B53, -											12						17							
*53:04, 53:07, 53:19	B53, -																	17							
*53:06	-											12						17							
*53:14	-			3								12													
*53:17:01-53:17:02	-											12						17							
*53:22	-											12		13				17							
*54:01:01, 54:02, 54:05N, 54:07-54:08N, 54:10, 54:13, 54:16-54:19, 54:21- 54:24	B54(22) -, Null, -																								
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.
				30							36					41		43	44		46		Negative Control	-	*51:62
				30							36								44		46			-	*51:64
				30						35	36								44		46			-	*51:68
				30							36								44		46			-	*51:81
										35	36								44		46			-	*51:93
				30						35	36								44		46			-	*51:97
				30						35	36								44		46			-	*51:101
				30						35	36										46			Null, -	*51:104, 51:118N
				30						35	36					41			44		46			-	*51:106
				30					34	35	36										46			-	*51:112
											35	36		38								46			B52(5), -
				30						35	36		38									46		B52(5), -	*52:01:02, 52:01:04, 52:01:09, 52:02-52:03, 52:06:01-52:06:02, 52:09
										35	36		38									46		B52(5), -	*52:01:05, 52:14
										35	36		38									46		-	*52:01:10
										35	36		38									46		-	*52:16
				30						35	36		38									46		-	*52:19
										35			38									46		-	*52:20
				30						35	36		38								45	46		-	*52:21
										35	36		38			41		43				46		-	*52:25
										35	36		38									46		-	*52:26
											36									44		46		B53, -	*53:01:01-53:01:05, 53:05, 53:08:01-53:08:02, 53:10, 53:15-53:16, 53:18, 53:20-53:21, 53:23 53:27
					31						36									44		46		-	*53:02
																				44		46		B53, -	*53:03, 53:09, 53:11-53:13
											36									44		46		B53, -	*53:04, 53:07, 53:19
				30	31						36									44		46		-	*53:06
											36									44		46		-	*53:14
											36		38									46		-	*53:17:01-53:17:02
				29							36									44		46		-	*53:22
			28				32							39	40							47		B54(22) , Null, -	*54:01:01, 54:02, 54:05N, 54:07-54:08N, 54:10, 54:13, 54:16-54:19, 54:21 54:24
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*54:01:02, 55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48, 55:50 ¹¹	B55(22) , B54(22) , B22, -																								
*54:03	-																								
*54:04, 54:15	-																								
*54:06	-												12												
*54:09, 54:14	-												12												
*54:11	B54(22)																								24
*54:12	-																								
*54:20	-																								
*55:01:01-55:01:06, 55:01:08, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:44- 55:45, 55:52-55:54	B55(22) , B22, -																								
*55:04, 55:08, 55:13, 55:27, 55:46, 55:49, 56:15, 56:19N, 56:22 ¹²	B55(22) , B56(22) , Null, -																								
*55:09, 55:24	B22, -										10														
*55:14	-												12					17							
*55:17, 55:28	-																								
*55:18	-											11													
*55:20	-							8																	
*55:21	-																								
*55:22	B55(22)										10														
*55:23, 55:32, 56:18, 56:31-56:32 ¹³	-												12												
*55:34	-																								
*55:40	-																								
*55:51	-			3																					
*56:01:01-56:01:04, 56:08, 56:14, 56:16, 56:20:01, 56:24, 56:26- 56:30	B56(22) , Null, -																								
*56:02, 56:04	B56(22)																								
*56:03	B22												12												
*56:05:01	B56(22)									9															
*56:05:02	B56(22)									9															
*56:06	B78									9									18						
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.
			28				32								40							47	Negative Control	B55(22)	*54:01:02, 55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48, 55:50 ¹¹
			28				32							39	41						47	-		*54:03	
			28				32							39							47	-		*54:04, 54:15	
			28				32							39						45	47	-		*54:06	
			28				32							39							47	-		*54:09, 54:14	
			28				32							39							47	B54(22)		*54:11	
			28				32		34					39	40						46	-		*54:12	
			28				32			35				39	40						47	-		*54:20	
			28				32								40						47	B55(22)		*55:01:01-55:01:06, 55:01:08, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:44-55:45, 55:52-55:54	
			28				32														47	B55(22)		*55:04, 55:08, 55:13, 55:27, 55:46, 55:49, 56:15, 56:19N, 56:22 ¹²	
			28				32			35											47	B22, -		*55:09, 55:24	
			28				32										42				47	-		*55:14	
			28				32			35											47	-		*55:17, 55:28	
													38		40						47	-		*55:18	
		27	28		30		32														47	-		*55:20	
			28				32			w					40					45	47	-		*55:21	
			28				32														47	B55(22)		*55:22	
			28				32														47	-		*55:23, 55:32, 56:18, 56:31-56:32 ¹³	
			28				32						38		40						47	-		*55:34	
			28				32			35			38		40						47	-		*55:40	
			28				32														47	-		*55:51	
			28				32									41					47	B56(22)		*56:01:01-56:01:04, 56:08, 56:14, 56:16, 56:20:01, 56:24, 56:26-56:30	
			28				32									41		43			47	B56(22)		*56:02, 56:04	
			28				32													45	47	B22		*56:03	
			28				32			35					40						47	B56(22)	*56:05:01		
			28				32			35											47	B56(22)	*56:05:02		
			28				32			35					40				w		47	B78	*56:06		
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*56:07	B56(22)																								
*56:09	-												12					17							
*56:10	B55(22)																								
*56:11-56:12	B55(22) , B56(22)																	17							
*56:13	B56(22)								8																
*56:17	-																								
*56:20:02	-																								24
*56:21	-											9													
*56:23	-																								
*56:25	-																								
*57:01:01-57:01:04, 57:01:06-57:01:12, 57:06, 57:08, 57:10, 57:15- 57:16, 57:18-57:20, 57:22- 57:23, 57:25-57:27, 57:29- 57:30, 57:33-57:38, 57:40- 57:41, 57:43-57:44, 57:48- 57:50, 57:52, 58:36 ¹⁴	B57(17) , -												12					17							
*57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47	B57(17) , -												12												
*57:02:01-57:03:02, 57:05, 57:17, 57:28N, 57:32, 57:39, 57:42, 57:46	B57(17) , Null, -																	17							
*57:04	B57(17)						6											17							
*57:07	-																	17							
*57:09	-								8									17							
*57:12	-																	17							
*57:14	-												12					17							
*57:24	-												12					17							
*57:45, 57:51	-				4								12					17							
*58:01:01-58:01:02, 58:01:04-58:01:09, 58:04- 58:05, 58:10N-58:15, 58:19, 58:21-58:24, 58:29- 58:33, 58:35	B58(17) , Null, -												12					17							
*58:01:03, 58:02, 58:06, 58:16, 58:25-58:26	B58(17) , -												12												
*58:07	-												12	13											
*58:08:01	B17									9															
*58:08:02	-									9															
*58:09	-												12					17							
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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			28				32									41					46		Negative Control	B56(22)	*56:07	
			28				32															47		-	*56:09	
			28				32								40			43				47		B55(22)	*56:10	
			28				32															47		B55(22)	*56:11-56:12	
			28				32									41						47		B56(22)	*56:13	
			28		30		32									41						47		-	*56:17	
			28				32									41						47		-	*56:20:02	
			28				32		34	35											46	-		*56:21		
			28				32								40							47		-	*56:23	
			28				32			35						41						47		-	*56:25	
																								Negative Control	B57(17)	*57:01:01-57:01:04, 57:01:06-57:01:12, 57:06, 57:08, 57:10, 57:15-57:16, 57:18-57:20, 57:22 57:23, 57:25-57:27, 57:29 57:30, 57:33-57:38, 57:40 57:41, 57:43-57:44, 57:48 57:50, 57:52, 58:36 ¹⁴
											36						42				46	B57(17)			*57:01:05, 57:11, 57:13, 57:21, 57:31, 57:47	
											36						42				46	B57(17)	*57:02:01-57:03:02, 57:05, 57:17, 57:28N, 57:32, 57:39, 57:42, 57:46			
											36						42				46	B57(17)	*57:04			
											36						42				46	-	*57:07			
				29							36						42				46	-	*57:09			
				29							36						42				47	-	*57:12			
							31				36						42				46	-	*57:14			
				29							36						42				46	-	*57:24			
									34		36										46	-	*57:45, 57:51			
																							Negative Control		B58(17)	*58:01:01-58:01:02, 58:01:04-58:01:09, 58:04-58:05, 58:10N-58:15, 58:19, 58:21-58:24, 58:29 58:33, 58:35
											36						43				46	B58(17)			*58:01:03, 58:02, 58:06, 58:16, 58:25-58:26	
											36						43				46	-		*58:07		
											35	36					43				46	B17		*58:08:01		
											35	36					43				46	-		*58:08:02		
							31				36						43				46	-		*58:09		
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	

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Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*58:17N	Null												12					17							
*58:18	-			3									12												
*58:20	-																					21			
*58:27	-																								
*58:28, 58:34	-																	17							
*59:01:01:01-59:01:01:02, 59:05	B59, -																								
*59:02-59:03	B59, -																								
*59:04	-																								
*67:01:01, 67:03	B67, -					5																21			24
*67:01:02-67:02	B67, -																					21			24
*73:01-73:02	B73, -																								24
*78:01:01-78:01:02, 78:02:02-78:03, 78:07	B78, -									9									18						
*78:02:01, 78:04	B78, -									9									18						
*78:05	-									9									18						
*78:06	-									9															
*81:01	B81																								
*81:02	B81																								24
*81:03-81:05	Null, -																								
*82:01-82:03	B82, -								8			11								19					
*83:01	-																	17							
A*23:31, A*24:106, C*16:10						6																			
A*24:174														13											
A*26:68, A*68:56, C*06:20, C*12:50																									
C*01:30					4																				
C*02:06, C*02:47																									
C*02:23, C*04:77		1																							
C*03:05, C*03:25, C*03:27				3																					
C*03:12, C*03:19																									
C*03:102																		17							
C*03:129																									
C*07:46									8																
C*15:02:04																									
C*15:25																									
C*15:39																									
C*15:51																							21		
Well No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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Lot No.: **72N**

Lot-specific information

25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.		
																		43			46			Negative Control	Null	*58:17N
										36								43			46				-	*58:18
										36								43			46				-	*58:20
										36								43			46				-	*58:27
										36								43			46				-	*58:28, 58:34
								34						40							46				B59, -	*59:01:01:01-59:01:01:02, 59:05
								34													46				B59, -	*59:02-59:03
								34							41						46				-	*59:04
			28																			47			B67, -	*67:01:01, 67:03
			28																			47			B67, -	*67:01:02-67:02
			28																	45	47		B73, -		*73:01-73:02	
										35				40					44		47				B78, -	*78:01:01-78:01:02, 78:02:02-78:03, 78:07
										35									44		47				B78, -	*78:02:01, 78:04
										35			38								47				-	*78:05
										35			38								47				-	*78:06
			28				32	33													47				B81	*81:01
			28					33													47				B81	*81:02
			28					33													47				Null, -	*81:03-81:05
			28				32									41					47				B82, -	*82:01-82:03
			28	29			32							39							47				-	*83:01
																										A*23:31, A*24:106, C*16:10
																										A*24:174
																				45						A*26:68, A*68:56, C*06:20, C*12:50
																										C*01:30
																		w								C*02:06, C*02:47
																									C*02:23, C*04:77	
																									C*03:05, C*03:25, C*03:27	
																41									C*03:12, C*03:19	
																41									C*03:102	
25																									C*03:129	
																									C*07:46	
														40												C*15:02:04
				29																						C*15:25
						31																				C*15:39
																									C*15:51	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		Well No.	

101.503-48/12 – including *Taq* pol., IFU-01
101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: 72N**Lot-specific information**

¹The internal positive control primer pairs amplify segments of the human growth hormone gene. The two different control primer pairs give rise to either an internal positive control band of 1070 base pairs, for most wells, or a band of 800 base pairs, for some wells.

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B screening typing.

In addition, wells number 4 to 6, 10, 17, 20, 21, 30, 35 and 42 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

²The nucleotide position, in the 1st, 2nd or 3rd exon or in the 1st intron, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk, imgt, hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The nucleotide position, in the 2nd or 3rd exon or the 3rd intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the www.ebi.ac.uk, imgt, hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

⁴The sequence of the B*0701 allele has been shown to be in error.

The sequence of the B*08:06 allele has been shown to be identical to B*08:20.

The sequence of the B*1305 allele has been shown to be identical to B*13:04.

The B*1324 allele has been renamed B*13:22:02

The B*150105 allele has been corrected and renamed B*15:120

The B*1522 allele has been renamed B*35:43.

The sequence of the B*1541 allele has been shown to be identical to B*15:39.

The B*1559 allele has been renamed B*35:44.

The B*15:100 allele has never been assigned.

The sequence of the B*1816 allele has been shown to be identical to B*18:14.

The sequence of the B*27051 allele has been shown to be identical to B*27:05:02.

The sequence of the B*2722 allele has been shown to be identical to the corrected B*27:06 sequence.

The B*35:43:02 allele has been renamed B*35:185.

The B*3573 allele has been renamed B*35:08:03.

The sequence of the B*39012 allele has been shown to be identical to B*39:01:01:01.

The sequence of the B*3921 allele has been shown to be identical to B*39:24.

The sequence of the B*4017 allele has been shown to be identical to B*40:16.

The sequence of the B*4041 allele has been shown to be identical to B*40:40.

The sequence of the B*4203 allele has never been assigned.

The sequence of the B*4401 allele has been shown to be identical to B*44:02:01:01.

The sequence of the B*5003 allele has been shown to be identical to B*50:02.

The sequence of the B*5125 allele has been shown to be identical to B*51:22.

The B*5147 allele has been renamed B*51:09:02.

The sequence of the B*5506 allele has been shown to be identical to B*55:04.

The sequence of the B*5803 allele has never been assigned.

The B*7901 allele has been renamed B*15:18:01.

The B*9530 allele has been renamed B*15:27:02.

⁵The serological reactivity of all HLA-B alleles is not known. In this table we use the expert-assigned serological grouping in Tissue Antigens (2009) 73:95-170 and the serological grouping of the sequence-defined allele.

⁶The B*08:26, 08:50 and 08:62 and the B*42:07 alleles give rise to identical amplification patterns with the HLA-B low resolution screening primer set. These alleles can be separated by the respective high resolution primer sets.

⁷The B*13:21 and 13:35 and the B*44:135 alleles give rise to identical amplification patterns with the HLA-B screening primer set. These alleles can be separated by the respective high resolution primer sets.

⁸The B*14:08 and the B*39:25N, 39:30, 39:32-39:34, 39:47 and 39:50 alleles give rise to identical amplification patterns with the HLA-B screening primer set. These alleles can be separated by the respective high resolution primer sets.

⁹The B*18:29 and the B*35:32:01-35:32:02, 35:37, 35:53N, 35:64, 35:66, 35:68:01-35:68:02, 35:99, 35:118-35:119 and 35:174 alleles give rise to identical amplification patterns with the HLA-

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Lot No.: 72N**Lot-specific information**

B screening primer set. These alleles can be separated by the respective high resolution primer sets.

¹⁰The B*41:09 and the B*45:02 and B*45:03 alleles give rise to identical amplification patterns with the HLA-B low resolution screening primer set. These alleles can be separated by the respective high resolution primer sets.

¹¹The B*54:01:02 and the B*55:01:07, 55:02:01-55:02:06, 55:07, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:35, 55:37, 55:39, 55:41-55:43, 55:47-55:48 and 55:50 alleles give rise to identical amplification patterns with the HLA-B screening primer set. These alleles can be separated by the respective high resolution primer sets.

¹²The B*55:04, 55:08, 55:13, 55:27, 55:46 and 55:49 and the B*56:15, 56:19N and 56:22 alleles give rise to identical amplification patterns with the HLA-B screening primer set. These alleles can be separated by the respective high resolution primer sets.

¹³The B*55:23 and 55:32 and the B*56:18, 56:31-56:32 alleles give rise to identical amplification patterns with the HLA-B screening primer set. These alleles can be separated by the respective high resolution primer sets.

¹⁴The B*57:01:01-57:01:04, 57:01:06-57:01:12, 57:06, 57:08, 57:10, 57:15-57:16, 57:18-57:20, 57:22-57:23, 57:25-57:27, 57:29-57:30, 57:33-57:38, 57:40-57:41, 57:43-57:44, 57:48-57:50 and 57:52 and the B*58:36 alleles give rise to identical amplification patterns with the HLA-B low resolution screening primer set. These alleles can be separated by the respective high resolution primer sets.

¹⁵Primer mix 48 contains a negative control, which will amplify more than 95% of HLA amplicons as well as the amplicons generated by control primer pairs. PCR product sizes range from 75 to 200 base pairs. The PCR product generated by the control primer pair is 430 base pairs.

‘ser’, serological HLA specificity.

‘w’, might be weakly amplified.

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

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **72N**

Lot-specific information

CELL LINE VALIDATION SHEET																					
HLA-B low resolution SSP kit																					
					Well																
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:		201190001	201190002	201190003	201190004	201190005	201190006	201190007	201190008	201190009	201190010	201201111	201190012	201190013	201190014	201190015	201190016
	IHWC cell line		B*																		
1	9001	SA	*07:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9280	LK707	*52:01	*73:01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
3	9011	E4181324	*52:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
4	9275	GU373	*15:10	*53:01	-	-	-	-	-	-	-	-	+	-	-	-	+	-	+	-	-
5	9009	KAS011	*37:01		-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
6	9353	SM	*39:01	*51:01	-	-	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-
7	9020	QBL	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
8	9025	DEU	*35:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
9	9026	YAR	*38:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*44:03		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*57:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
13	9004	JESTHOM	*27:05		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+
14	9071	OLGA	*15:01	*15:20	-	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
15	9075	DKB	*40:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*08:01	*55:01	-	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
18	9257	32367	*14:01	*56:01	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
19	9038	BM16	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
20	9059	SLE005	*40:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*15:01		-	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
22	9056	KOSE	*35:03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02	*56:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	9035	JBUSH	*38:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02		-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-
27	9191	CH1007	*07:05	*51:01	+	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
28	9320	BEL5GB	*44:02	*44:03	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
29	9050	MOU	*44:03		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
30	9021	RSH	*42:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-
31	9019	DUCAF	*18:01		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
32	9297	HAG	*41:02		-	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-	-
33	9098	MT14B	*40:01		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
34	9104	DHIF	*38:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02		-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
36	9024	KT17	*15:01	*35:01	-	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
37	9065	HHKB	*07:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	9099	LZL	*15:01		-	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
39	9315	CML	*08:01	*27:05	-	+	-	-	+	-	-	+	-	-	-	-	-	-	-	-	+
40	9134	WHONP199	*13:02	*46:01	-	-	+	+	-	-	+	-	-	-	+	-	+	-	-	-	-
41	9055	H0301	*14:02		-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01		-	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
43	9076	T7526	*46:01		-	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-
44	9057	TEM	*38:01		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01	*50:01	-	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-	-
46	9013	SCHU	*07:02		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	9045	TUBO	*51:01		-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
48	9303	TER-ND	*35:01	*44:03	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	-

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **72N**

Lot-specific information

CELL LINE VALIDATION SHEET																					
HLA-B low resolution SSP kit																					
					Well																
						17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
				Prod. No.:		201190017	201190018	201190019	201298120	201190021	201190022	201190023	201190024	201190025	201190026	201190027	201190028	201190029	201190030	201190031	201190032
	IHCW cell line		B*																		
1	9001	SA	*07:02			-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-
2	9280	LK707	*52:01		*73:01	-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-
3	9011	E4181324	*52:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	9275	GU373	*15:10		*53:01	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9009	KAS011	*37:01			+	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-
6	9353	SM	*39:01		*51:01	-	-	-	-	+	-	+	+	-	-	-	-	-	+	-	-
7	9020	QBL	*18:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9025	DEU	*35:01			+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*38:01			-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*54:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+
11	9051	PITOUT	*44:03			+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
12	9052	DBB	*57:01			+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*27:05			-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+
14	9071	OLGA	*15:01		*15:20	+	-	+	-	-	-	-	-	-	+	-	-	-	-	-	-
15	9075	DKB	*40:01			-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-
16	9037	SWEIG007	*40:02			-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-
17	9282	CTM3953540	*08:01		*55:01	-	-	-	-	-	-	-	+	-	-	+	+	-	-	-	+
18	9257	32367	*14:01		*56:01	-	-	-	-	-	-	+	+	-	-	-	+	-	-	-	+
19	9038	BM16	*18:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*40:01			-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-
21	9064	AMALA	*15:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
22	9056	KOSE	*35:03			+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	9124	IHL	*40:02		*56:02	-	-	-	-	-	-	-	-	-	+	-	+	-	-	-	+
24	9035	JBUSH	*38:01			-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-
25	9049	IBW9	*14:02			-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
26	9285	WT49	*58:01			+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	9191	CH1007	*07:05		*51:01	-	-	-	-	-	-	-	+	-	-	-	+	-	+	-	-
28	9320	BEL5GB	*44:02		*44:03	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
29	9050	MOU	*44:03			+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
30	9021	RSH	*42:01			-	-	-	-	-	-	-	+	-	-	+	+	-	-	-	-
31	9019	DUCAF	*18:01			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*41:02			-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-
33	9098	MT14B	*40:01			-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-
34	9104	DHIF	*38:01			-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-
35	9302	SSTO	*44:02			+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
36	9024	KT17	*15:01		*35:01	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
37	9065	HHKB	*07:02			-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-
38	9099	LZL	*15:01			-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
39	9315	CML	*08:01		*27:05	-	-	-	-	-	-	-	+	-	-	+	+	-	-	-	+
40	9134	WHONP199	*13:02		*46:01	-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
41	9055	H0301	*14:02			-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-
42	9066	TAB089	*46:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
43	9076	T7526	*46:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	+	-
44	9057	TEM	*38:01			-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-
45	9239	SHJO	*42:01		*50:01	-	-	-	-	-	-	-	+	-	-	+	+	-	-	-	-
46	9013	SCHU	*07:02			-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-
47	9045	TUBO	*51:01			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-
48	9303	TER-ND	*35:01		*44:03	+	+	-	-	-	-	-	-	-	-	-	-	+	-	-	-

101.503-48/12 – including *Taq* pol., IFU-01
 101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **72N**

Lot-specific information

CELL LINE VALIDATION SHEET																				
HLA-B low resolution SSP kit																				
					Well															
						33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
					Prod. No.:	201190033	201190034	201190035	201190036	201190037	201190038	201190039	201190040	201190041	201190042	201190043	201190044	201298145	201190046	201190047
	IHCW cell line		B*																	
1	9001	SA	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
2	9280	LK707	*52:01	*73:01		-	-	+	+	-	+	-	-	-	-	-	-	+	+	+
3	9011	E4181324	*52:01			-	-	+	+	-	+	-	-	-	-	-	-	-	+	-
4	9275	GU373	*15:10	*53:01		-	-	-	+	-	-	-	-	-	-	-	+	-	+	+
5	9009	KAS011	*37:01			-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
6	9353	SM	*39:01	*51:01		-	-	+	+	-	-	-	-	-	-	-	+	-	+	+
7	9020	QBL	*18:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	+
8	9025	DEU	*35:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	+
9	9026	YAR	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
10	9107	LKT3	*54:01			-	-	-	-	-	-	+	+	-	-	-	-	-	-	+
11	9051	PITOUT	*44:03			-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
12	9052	DBB	*57:01			-	-	-	+	-	-	-	-	-	+	-	-	-	+	-
13	9004	JESTHOM	*27:05			-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
14	9071	OLGA	*15:01	*15:20		-	-	-	-	-	+	-	-	-	-	-	+	-	-	+
15	9075	DKB	*40:01			-	-	-	-	+	+	-	-	-	-	-	-	-	-	+
16	9037	SWEIG007	*40:02			-	-	-	-	+	+	-	-	-	-	-	-	-	-	+
17	9282	CTM3953540	*08:01	*55:01		-	-	+	-	-	-	-	+	-	-	-	-	-	-	+
18	9257	32367	*14:01	*56:01		-	-	-	-	-	-	-	-	+	-	-	-	-	-	+
19	9038	BM16	*18:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	+
20	9059	SLE005	*40:01			-	-	-	-	+	+	-	-	-	-	-	-	-	-	+
21	9064	AMALA	*15:01			-	-	-	-	-	+	-	-	-	-	-	-	+	-	+
22	9056	KOSE	*35:03			-	-	-	-	-	-	-	-	-	-	-	+	-	-	+
23	9124	IHL	*40:02	*56:02		-	-	-	-	+	+	-	-	+	-	+	-	-	-	+
24	9035	JBUSH	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
25	9049	IBW9	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
26	9285	WT49	*58:01			-	-	-	+	-	-	-	-	-	-	+	-	-	+	-
27	9191	CH1007	*07:05	*51:01		-	-	+	+	-	-	-	-	-	-	-	+	-	+	+
28	9320	BEL5GB	*44:02	*44:03		-	-	-	-	-	+	+	-	-	-	-	-	-	+	-
29	9050	MOU	*44:03			-	-	-	-	-	+	-	-	-	-	-	-	-	+	-
30	9021	RSH	*42:01			-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
31	9019	DUCAF	*18:01			-	-	-	-	-	-	-	-	-	-	-	+	-	-	+
32	9297	HAG	*41:02			-	-	-	-	+	+	-	-	-	-	-	-	-	-	+
33	9098	MT14B	*40:01			-	-	-	-	+	+	-	-	-	-	-	-	-	-	+
34	9104	DHIF	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
35	9302	SSTO	*44:02			-	-	-	-	-	+	+	-	-	-	-	-	-	+	-
36	9024	KT17	*15:01	*35:01		-	-	-	-	-	+	-	-	-	-	-	+	+	-	+
37	9065	HHKB	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
38	9099	LZL	*15:01			-	-	-	-	-	+	-	-	-	-	-	-	+	-	+
39	9315	CML	*08:01	*27:05		-	-	-	-	-	+	-	-	-	-	-	-	-	+	+
40	9134	WHONP199	*13:02	*46:01		-	-	-	-	-	+	-	-	-	-	-	-	+	+	+
41	9055	H0301	*14:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
42	9066	TAB089	*46:01			-	-	-	-	-	-	-	-	-	-	-	-	+	-	+
43	9076	T7526	*46:01			-	-	-	-	-	-	-	-	-	-	-	-	+	-	+
44	9057	TEM	*38:01			-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
45	9239	SHJO	*42:01	*50:01		-	-	+	-	+	+	-	-	+	-	-	-	-	-	+
46	9013	SCHU	*07:02			-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
47	9045	TUBO	*51:01			-	-	+	+	-	-	-	-	-	-	-	+	-	+	-
48	9303	TER-ND	*35:01	*44:03		-	-	-	-	-	+	-	-	-	-	-	+	-	+	+

101.503-48/12 – including *Taq* pol., IFU-01
101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **72N**

Lot-specific information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B low resolution screening SSP

Product number: 101.503-48/12 – including *Taq* pol.
101.503-48u/12u – without *Taq* pol.
Lot number: 72N
Expiry date: 2014-November-01
Number of tests: 48 tests – Product No. 101.503-48/48u
12 tests – Product No. 101.503-12/12u
Number of wells per test: 47 + 1

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2011-900-01	17	2011-900-17	33	2011-900-33
2	2011-900-02	18	2011-900-18	34	2011-900-34
3	2011-900-03	19	2011-900-19	35	2011-900-35
4	2011-900-04	20	2012-981-20	36	2011-900-36
5	2011-900-05	21	2011-900-21	37	2011-900-37
6	2011-900-06	22	2011-900-22	38	2011-900-38
7	2011-900-07	23	2011-900-23	39	2011-900-39
8	2011-900-08	24	2011-900-24	40	2011-900-40
9	2011-900-09	25	2011-900-25	41	2011-900-41
10	2011-900-10	26	2011-900-26	42	2011-900-42
11	2012-011-11	27	2011-900-27	43	2011-900-43
12	2011-900-12	28	2011-900-28	44	2011-900-44
13	2011-900-13	29	2011-900-29	45	2012-981-45
14	2011-900-14	30	2011-900-30	46	2011-900-46
15	2011-900-15	31	2011-900-31	47	2011-900-47
16	2011-900-16	32	2011-900-32		

The specificity of each primer solution of the kit has been tested against 48 well characterized IHWC cell line DNAs.

Additional 5'-primers in primer solutions 1, 3, 6, 14, 19, 21, 25, 29, 31 and 40 were tested by separately adding additional 3'-primers.

Additional 3'-primers in primer solutions 2, 3, 6, 13 to 15, 19, 29, 31, 35 and 40 were tested by separately adding additional 5'-primers.

In primer solutions 31 and 42 one 5'-primer was not possible to test and in primer solutions 38 and 42 one 3'-primer was not possible to test.

The negative control primer pairs, **Production No. 2012-002-01**, can detect contamination with PCR products diluted 10^{-7} .

Results: No false positive or false negative amplifications were obtained.

101.503-48/12 – including *Taq* pol., IFU-01
101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **72N**

Lot-specific information

Date of approval: 2012-May-25

Approved by:

Production Quality Control

101.503-48/12 – including *Taq* pol., IFU-01
101.503-48u/12u – without *Taq* pol., IFU-02

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Lot No.: **72N**

Lot-specific information

Declaration of Conformity

Product name: Olerup SSP® HLA-B low resolution screening
Product number: 101.503-48/48u, -12/12u
Lot number: 72N

Intended use: HLA-B low resolution screening histocompatibility testing

Manufacturer: Olerup SSP AB
Franzengatan 5
SE-112 51 Stockholm, Sweden
Phone: +46-8-717 88 27
Fax: +46-8-717 88 18

We, Olerup SSP AB, hereby declare that this product, to which this Declaration of Conformity relates is in conformity with the following Standard(s) and other normative document(s) ISO 9001:2008 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at Olerup SSP AB, Franzengatan 5, SE-112 51 Stockholm, Sweden.

Notified Body: Lloyd's Register Quality Assurance Limited, Hiramford, Middlemarch Office Village, Siskin Drive, Coventry CV3 4FJ, United Kingdom.
(Notified Body number: 0088.)

Stockholm, Sweden
2012-May-25

Ann-Cathrin Jareman
Head of QA and Regulatory Affairs

101.503-48/12 – including *Taq* pol., IFU-01
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Lot-specific information

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