

101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 36S

Lot-specific information

Olerup SSP® HLA-B low resolution

Product number:	101.501-48/12 – including <i>Taq</i> pol. 101.501-48u/12u – without <i>Taq</i> pol.
Lot number:	36S
Expiry date:	2016-January-01
Number of tests:	48 tests – Product No. 101.501-48/48u 12 tests – Product No. 101.501-12/12u
Number of wells per test:	63 + 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. 36S.

CHANGES COMPARED TO THE PREVIOUS OLERUP SSP® HLA-B LOW RESOLUTION LOT (99R)

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

The HLA-B low resolution specificity and interpretation tables have been updated for the HLA-B alleles reported since the previous *Olerup SSP® HLA-B low resolution lot was made (Lot No. 99R).*

The HLA-B low resolution primer set is unchanged compared to the previous *Olerup SSP® HLA-B low resolution (Lot No. 99R)*

Changes in revision R01 compared to R00:

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

Changes in revision R02 compared to R01:

1. In primer mix 54, the specific PCR product of 630 base pairs may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low primer mixes. A foot note has been added to the Specificity Table.

Changes in revision R03 compared to R02:

1. In primer mixes 56 and 57, the specific PCR product may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low primer mixes. A foot note has been added to the Specificity Table.

Change in revision R04 compared to R03:

1. Primer mix 4 amplifies the B*15:143, 35:19, 40:170, 44:07 and 50:07 alleles, and primer mix 26 amplifies the B*37:06:01 alleles. Foot notes for these two primer mixes have been added to the Specificity Table.

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 36S

Lot-specific information

Well 64 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 5'-CAC ^{3'}	340 5'-Agg ^{3'}	440 5'-TTA ^{3'}	45 5'-Tgg ^{3'}	45 5'-Tgg ^{3'}	43 5'-Tgg ^{3'}
3'-primer²	231 5'-TgC ^{3'}	2nd 5'-AAA ^{3'}	507 5'-TTg ^{3'}	59 5'-CTC ^{3'}	58 5'-ggC ^{3'}	57 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.

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 36S

Lot-specific information

PRODUCT DESCRIPTION

HLA-B low resolution 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 64 PCR reactions in a 64 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
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

Wells 1 to 63 – HLA-B low resolution primers.

Well 64 – Negative Control.

The 64 well cut PCR plate is marked with ‘HLA-B low’ in silver/gray ink.

Well No. 1 is marked with the Lot No. ‘36S’.

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.

INTERPRETATION

Only HLA-B alleles will be amplified by the HLA-B low resolution 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, C*03:27, C*03:143 and C*03:167 alleles, primer mix 4 will amplify the C*01:30 and C*12:87 alleles, primer mix 6 will amplify the A*23:31, A*24:106, C*07:231 and C*16:10 alleles, primer mixes 7 will amplify the C*01:73, C*07:02:30 and C*08:16:02 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 19 will amplify the C*03:179 allele, primer mix 20 will amplify the C*07:302 allele, primer mix 21 will amplify the C*15:51 allele, primer mix 25 will amplify the C*03:129 and C*17:16 alleles, primer mix 26 will amplify the C*01:73 allele, primer mix 29 will amplify the C*15:25 allele, primer mix 31 will amplify the C*01:73 and C*15:39 alleles, primer mix 40 will amplify the C*15:02:04 allele, primer mix 41 will amplify the C*03:12 and C*03:102 alleles, primer mix 42 will amplify the C*06:72 allele, primer mix 43 will weakly amplify the C*02:06 and C*02:47 alleles, primer mix 45 will amplify the A*26:68, A*68:56, C*02:56, C*06:20 and C*12:50 alleles, primer mix 50 will amplify the C*08:51 allele, primer mix 52

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 36S**Lot-specific information**

will amplify the A*24:146 allele, primer mix 53 will amplify the C*05:30 allele, primer mix 54 will amplify the A*24:02:37 and C*15:25 alleles, primer mix 55 will amplify the C*02:60 allele and primer mix 57 will amplify the C*07:46 allele. Thus, the interpretation of HLA-B low resolution typings is only influenced by these alleles, and not by other HLA class I alleles.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B alleles recognized by the HLA Nomenclature Committee in April 2013¹ will be amplified by the primers in the HLA-B low resolution 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 2013-April-17, release 3.12.0, 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*55:23 and 55:32 and the B*56:18 and 56:32 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

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 101.501-48u/12u – without *Taq* polymerase, IFU-02

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 "Instructions for Use" (IFU)

Lot No.: 36S

Lot-specific information
SPECIFICITY TABLE

HLA-B low resolution SSP typing

Specificities and sizes of the PCR products of the 63+1 primer mixes used for HLA-B low resolution SSP typing

Primer Mix	Size of spec. PCR product ¹	Size of PCR control band ²	HLA-B serol. ³	Amplified HLA-B alleles ^{4,5}
1 ^{6,9}	110 bp	800 bp	7, 703, 40, *07:02:01-07:18:02, 07:20-07:32, 07:34-07:39, 07:41-41, 42, 48, 07:47, 07:49N-07:50, 07:52, 07:54-07:59, 07:61-61 07:99, 07:101-07:121, 07:123-07:138, 07:140-07:154, 07:156-07:163, 07:166-07:190, 08:79, 15:138, 15:230, 15:241, 37:07, 40:15-40:16, 40:23, 40:32, 40:98, 40:136, 40:158, 40:183, 40:198, 40:231, 41:08, 42:05:01-42:05:02, 44:150, 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, 08:66-08:84, 08:86N-08:93, 08:95-08:108, 15:142, 15:180, 35:218, 44:49, 44:156, 49:25, 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, 13:10-13:12:01, 13:13-4005, 13:23, 13:25-13:38, 13:40-13:57, 13:59-13:66, 15:07:01-15:07:02, 15:36 ^w , 15:45, 15:55, 15:68, 15:89 ^w , 15:126, 15:207, 35:05:01-35:05:03, 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, 35:199, 40:05, 40:71, 40:174, 44:08 ^w , 44:54, 44:57 ^w , 44:60, 44:106, 44:110, 44:135, 44:158, 46:12, 51:64, 51:148, 53:14, 55:51, 58:18, C*03:05, C*03:25, C*03:27, C*03:143, C*03:167
4 ^{7,8,18}	130 bp, 265 bp	800 bp	12, 13, 14, 21, 35, 35:47, 40:41, 45, 47, 49, 50, 60, 61, 64, 65	*13:01:01-13:04, 13:06-13:13, 13:15-13:23, 13:25-17, 13:57, 13:59-13:67, 14:01:01-14:02:08, 14:03-14:04, 14:07N, 14:09, 14:11-14:12, 14:14-14:33, 15:46, 15:53, 15:106, 15:212, 18:44:01-18:44:02, 35:46-50, 35:63, 35:154, 35:207, 35:217, 40:01:01-40:29, 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,

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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

Lot No.: 36S**Lot-specific information**

			40:160:01-40:160:02, 40:163-40:164, 40:166, 40:168, 40:171-40:172, 40:175, 40:178-40:179, 40:182-40:183, 40:186-40:188, 40:191-40:199, 40:204, 40:207-40:208, 40:212-40:213, 40:215-40:219, 40:221-40:223, 40:227-40:228, 40:231, 40:233-40:238, 41:01-41:27, 44:02:01:01-44:03:06, 44:03:08-44:03:15, 44:03:17-44:03:18, 44:04-44:05:04, 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, 44:135-44:144, 44:146-44:155, 44:157-44:175, 45:01-45:14, 47:01:01:01-47:08, 49:01:01-49:02, 49:04-49:24, 50:01:01-50:02, 50:04-50:06, 50:08-50:20, 50:31-50:32, 53:30, 57:45, 57:51, C*01:30, C*12:87
5⁸	185 bp, 235 bp	800 bp	7, 16, 17, 27, 2708, 37, 38, 3901, 3902, 39, 64, 67 *07:02:32, 14:01:01-14:01:03, 14:07N-14:08, 14:10, 14:12, 14:14, 14:19, 14:26, 14:32, 27:01-27:05:15, 27:05:17-27:05:19, 27:05:21-27:06, 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, 27:82-27:105, 37:02, 38:01:01-38:02:02, 38:02:04-38:03, 38:07-38:24, 38:26-38:32, 38:34N-38:43, 39:01:01:01-39:01:01:03, 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, 39:24:01-39:39:01, 39:40:01N-39:44, 39:46-39:48, 39:50-39:62, 39:64-39:71, 39:73-39:75, 39:77, 39:79-39:82, 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, 08:87, 14:02:01-14:02:02, 14:02:04-14:02:05, 14:02:07-14:06:02, 14:09, 14:11, 14:13, 14:15-14:18, 14:20, 14:22-14:23, 14:25, 14:27, 14:29-14:31, 14:33, 15:77, 15:189, 15:233, 35:26, 38:05, 38:33, 39:04, 44:16, 44:37:01-44:37:02, 44:64:01-44:64:02, 44:91, 44:132, 44:150, 52:26, 57:04, A*23:31, A*24:106, C*07:231, 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, 15:01:06-15:02:06, 15:03:03, 15:11:05-15:15, 15:19-15:21, 15:24:01-15:28, 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,

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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

Lot No.: 36S**Lot-specific information**

				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, 15:239-15:241, 15:244-15:251, 15:256-15:262N, 15:264-15:265, 15:267-15:273, 46:01:01-46:38, C*01:73, C*07:02:30, C*08:16:02
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, 08:56:01-08:69, 08:71- 08:73, 08:75-08:76, 08:78, 08:80-08:86N, 08:88, 08:90-08:106, 13:46, 15:03:01-15:03:04, 15:09- 15:10:02, 15:18:01-15:18:05, 15:23, 15:29, 15:37, 15:46-15:47:02, 15:49, 15:51-15:54, 15:61-15:62, 15:64:01-15:64:02, 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, 15:242- 15:243, 15:252-15:253, 15:255, 15:259, 15:263, 15:266, 15:274-15:275, 35:87, 37:12, 38:30, 40:12, 40:136, 40:231, 41:01-41:03:02, 41:05-41:09, 41:11- 41:17, 41:19-41:27, 42:01:01-42:02, 42:04-42:08, 42:10-42:15, 42:17-42:18, 44:14-44:15, 44:18, 44:20, 44:62, 44:100, 44:166, 45:01-45:14, 51:08, 51:20, 51:36, 51:44N, 51:97, 51:141, 52:19, 55:20, 55:56, 56:13, 57:09, 82:01-82:03, C*07:46
9	390 bp	1070 bp	63	*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, 15:254, 15:268, 15:273
10	180 bp	800 bp	13, 22, 55, 60	*07:78, 13:01:01-13:02:15, 13:07N-13:09, 13:11, 13:14-13:20, 13:22:01-13:23, 13:25, 13:27-13:34, 13:36-13:45, 13:47, 13:49N-13:50, 13:52, 13:54- 13:58, 13:60-13:61, 13:63N-13:67, 40:48, 45:10, 49:07, 50:31, 54:26, 55:09, 55:22, 55:24
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, 15:03:01-15:03:04, 15:47:01-15:47:02, 15:49, 15:54, 15:61-15:62, 15:64:01-15:64:02, 15:68-15:69, 15:91, 15:98, 15:103, 15:123, 15:127, 15:131-15:132, 15:151, 15:156, 15:210, 15:220, 15:235, 15:242, 15:253, 15:259, 15:266, 15:274, 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, 39:39:01-39:39:02, 39:49, 40:12, 40:46, 40:93, 42:11, 44:10, 44:15, 44:18, 44:40, 44:44, 44:130, 44:140, 44:156, 45:01, 45:05-45:07, 45:11- 45:14, 48:01:01-48:05, 48:07-48:30, 49:20, 50:02,

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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 “Instructions for Use” (IFU)

Lot No.: 36S

Lot-specific information

			52:16, 55:18, 82:01-82:03
12	280 bp	1070 bp	5, 7, 8, 13, *07:09, 07:11, 07:17, 07:162, 08:28, 08:35, 08:37, 15, 16, 17, 08:89, 08:107, 13:04, 13:10, 13:26, 15:01:01:01-18, 22, 35, 15:01:04, 15:01:06-15:08, 15:11:01-15:16:03, 40, 42, 44, 15:18:01-15:21, 15:23-15:29, 15:31-15:36, 15:38:01-46, 48, 49, 15:40, 15:43-15:44, 15:46-15:47:02, 15:49-15:57, 51, 53, 55, 15:60-15:62, 15:64:01-15:72, 15:74-15:76, 15:78:01-56, 57, 58, 15:82, 15:84-15:85, 15:87-15:89, 15:91-15:98, 15:101-60, 61, 62, 15:129, 15:131-15:132, 15:134-15:136, 15:138-63, 70, 71, 15:149N, 15:151-15:161, 15:163-15:167, 15:169-72, 75, 76, 15:176, 15:178-15:187, 15:189-15:195, 15:197-77, 78 15:207, 15:209N-15:215, 15:217-15:223, 15:225-15:228, 15:231-15:232, 15:234-15:242, 15:244-15:247, 15:249-15:251, 15:254-15:268, 15:270-15:272N, 15:274-15:275, 18:01:01:01-18:15, 18:17N-18:25, 18:27-18:40, 18:42-18:60, 18:62-18:89, 27:41, 35:01:01:01-35:01:37, 35:05:01-35:05:03, 35:07-35:08:06, 35:10-35:11:03, 35:14:01-35:17, 35:19-35:21, 35:23-35:30, 35:32:01-35:32:02, 35:35, 35:37, 35:40N-35:43:01, 35:45-35:54, 35:57-35:58, 35:61:01-35:64:02, 35:66-35:69, 35:71-35:72, 35:76-35:80, 35:82, 35:86, 35:89-35:94, 35:97, 35:99-35:105, 35:107-35:108:02, 35:110-35:126, 35:130N-35:135, 35:137-35:148, 35:158-35:159, 35:161, 35:165N-35:166, 35:168, 35:170-35:171, 35:173N-35:178, 35:180, 35:185-35:192, 35:194, 35:196-35:197, 35:200, 35:202-35:203, 35:206-35:210, 35:212, 35:215-35:219, 35:222, 35:224-35:229, 37:35, 39:07, 39:43, 40:03, 40:20, 40:38, 40:52, 40:59-40:60, 40:105, 40:158-40:159, 40:222, 41:24, 42:09, 44:17, 44:43:01-44:43:02, 44:144, 45:09, 46:01:01-46:10, 46:12-46:17, 46:19-46:38, 48:02:01-48:02:03, 48:14, 48:23, 48:25, 49:04-49:05, 51:37, 51:45, 51:63, 51:97, 53:01:01-53:03, 53:05-53:06, 53:08:01-53:18, 53:20-53:30, 54:06, 54:09, 54:14, 55:14, 55:23, 55:32, 56:03, 56:09, 56:18, 56:31-56:32, 57:01:01-57:01:14, 57:06, 57:08, 57:10-57:11, 57:13-57:16, 57:18-57:27, 57:29-57:31, 57:33-57:38, 57:40-57:41, 57:43-57:45, 57:47-57:56, 57:58-57:62, 57:64, 58:01:01-58:02, 58:04-58:07, 58:09-58:19, 58:21-58:26, 58:29, 58:31N-58:33, 58:35-58:40, 58:42
13 ¹⁰	195 bp	1070 bp	27, 35, 37, *15:12, 15:14, 15:19, 15:91, 15:131, 15:161, 15:270, 44, 58, 76 18:54, 18:56, 35:45, 35:71, 37:01:01-37:09, 37:12-37:13, 37:15-37:21, 37:23-37:28, 37:30N-37:33N, 37:35-37:36, 38:17, 44:17, 44:43:01-44:43:02, 44:144, 45:09, 46:17, 53:22, 58:07, A*24:174

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 36S**Lot-specific information**

14⁶	105 bp, 395 bp, 435 bp	1070 bp	5, 7, 15, 41, 42, 62, 63, 70, 71, 75, 77	*07:04, 07:25, 07:146, 15:09-15:10:02, 15:13:01- 15:13:02, 15:16:01-15:18:05, 15:21, 15:23-15:24:02, 15:37, 15:44, 15:51-15:52, 15:66-15:67, 15:72, 15:80, 15:87, 15:90, 15:93, 15:95, 15:99, 15:108, 15:114- 15:115, 15:119, 15:124, 15:133-15:134, 15:153, 15:157, 15:161-15:162, 15:168, 15:176-15:177, 15:186, 15:189, 15:196-15:198, 15:200, 15:208, 15:216, 15:221-15:222, 15:226N, 15:229-15:230, 15:238, 15:243, 15:252, 15:254, 15:263, 15:268, 15:273, 15:275, 40:136, 40:231, 41:08, 42:05:01- 42:05:02
15⁶	115 bp, 150 bp	1070 bp	18	*18:01:01:01-18:15, 18:17N-18:28, 18:30-18:71, 18:73-18:89, 48:28
16⁶	80 bp	1070 bp	7, 27, 2708, 44, 60	*07:73, 08:88, 08:102, 27:01-27:21, 27:23-27:51, 27:53-27:66N, 27:68-27:74, 27:76-27:105, 38:22, 40:46, 40:93, 44:40, 44:44, 44:130, 49:26
17	150 bp	800 bp	12, 13, 17, 18, 22, 27, 35, 37, 39, 44, 45, 47, 48, 51, 53, 56, 57, 58, 62, 70, 75, 77, 78	*08:49, 13:01:01-13:01:06, 13:06-13:07N, 13:12:01- 13:13, 13:17, 13:20, 13:22:01-13:23, 13:25-13:26, 13:36, 13:39, 13:43, 13:50-13:52, 13:57, 13:63N, 14:10, 15:02:01-15:02:06, 15:20-15:21, 15:25:01-15:25:03, 15:44, 15:62, 15:77, 15:80, 15:85, 15:88-15:89, 15:106, 15:112, 15:121, 15:139, 15:144, 15:154, 15:165, 15:170, 15:194, 15:204, 15:213-15:214, 15:223, 15:240, 15:250, 15:265, 15:271, 18:22, 18:69, 27:19, 27:30, 35:01:01:01-35:04:03, 35:06-35:08:06, 35:10-35:17, 35:19-35:21, 35:23-35:30, 35:33-35:36, 35:38-35:42:02, 35:45-35:50, 35:52, 35:54-35:57, 35:59, 35:61:01-35:63, 35:65Q, 35:69-35:71, 35:74, 35:76-35:78, 35:80-35:85, 35:90-35:96, 35:98, 35:100- 35:101:02, 35:103-35:113, 35:115-35:116, 35:120- 35:126, 35:128-35:134N, 35:136-35:150, 35:152- 35:173N, 35:175-35:184, 35:186-35:198, 35:200- 35:204, 35:206-35:229, 37:01:01-37:01:07, 37:01:09, 37:03N-37:06, 37:08, 37:10-37:11, 37:13-37:37, 38:20, 39:42, 40:28, 44:02:01:01-44:14, 44:16-44:17, 44:19N, 44:21-44:30, 44:32-44:40, 44:42-44:46, 44:48-44:52N, 44:55-44:64:02, 44:66-44:98, 44:101- 44:105, 44:107-44:134, 44:136-44:137, 44:139- 44:157, 44:159-44:165, 44:167-44:175, 46:33, 48:02:01-48:02:03, 48:25, 50:17, 51:04, 51:42, 51:46, 51:56:01-51:56:02, 51:139, 53:01:01-53:13, 53:15- 53:30, 55:14, 56:09, 56:11-56:12, 57:01:01-57:01:04, 57:01:06-57:10, 57:12, 57:14-57:20, 57:22-57:30, 57:32-57:46, 57:48-57:64, 58:01:01-58:01:02, 58:01:04-58:01:12, 58:04-58:05, 58:09-58:15, 58:17N,

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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 "Instructions for Use" (IFU)

Lot No.: 36S

Lot-specific information

				58:19, 58:21-58:24, 58:28-58:29, 58:31N-58:37, 58:39N-58:40, 58:42, 83:01, C*03:102
18	135 bp	1070 bp	8, 18, 22, 35, 39, 78	*07:65, 07:134, 08:32, 15:202, 15:239, 18:01:01:01- 18:08, 18:10-18:15, 18:17N-18:36, 18:38-18:47, 18:50-18:53, 18:55-18:65, 18:68-18:78, 18:80-18:89, 35:01:01:01-35:03:02, 35:03:04-35:08:04, 35:08:06- 35:18, 35:20:01-35:24:02, 35:28-35:45, 35:48, 35:50- 35:55, 35:57-35:62, 35:64:01-35:72, 35:74-35:153, 35:155-35:197, 35:199-35:202, 35:204-35:206, 35:208-35:209, 35:211-35:216N, 35:218-35:221, 35:223-35:229, 37:11, 37:37, 39:19:01-39:19:02, 40:185, 40:209, 56:06, 78:01:01-78:05, 78:07
19 ^{6,9}	60 bp, 245 bp, 400 bp	1070 bp	5, 15, 44, 48, 60, 62, 15:42-15:58, 15:60-15:67, 15:69-15:99, 15:102- 63, 70, 71, 15:129, 15:131-15:179, 15:181N-15:235, 15:237- 72, 75, 76, 15:254, 15:256-15:275, 40:12, 82:01-82:03, C*03:179 77, 82	*15:01:01:01-15:01:04, 15:01:06-15:21, 15:23-15:40,
20 ⁹	210 bp	800 bp	27, 37	*07:27, 08:49, 18:54, 37:01:01-37:37, 38:17, C*07:302
21	170 bp	800 bp	16, 35, 38, 39, 3901, 3902, 67, 72	*08:55, 15:69, 15:186, 35:35, 38:01:01-38:09, 38:11- 39, 38:21, 38:23-38:29, 38:31-38:35, 38:38-38:43, 39:01:01:01-39:01:01:03, 39:01:03-39:20, 39:22- 39:24:02, 39:26-39:29, 39:31, 39:35, 39:37-39:42, 39:44-39:46, 39:48-39:49, 39:51-39:73, 39:75-39:81, 40:184, 51:101, 58:20, 67:01:01-67:03, C*15:51
22 ⁶	110 bp	1070 bp	38	*38:01:01-38:02:02, 38:02:04-38:03, 38:05, 38:08- 38:24, 38:26-38:34N, 38:36-38:43, 49:26, 52:01:10
23	395 bp	1070 bp	14, 16, 38, 39, 3901, 64, 65	*07:69, 07:85, 07:180, 08:65, 14:01:01-14:20, 14:22- 39, 14:33, 38:01:01-38:02:05, 38:04-38:05, 38:08-38:25, 38:27-38:43, 39:01:01:01-39:01:01:03, 39:01:03- 39:01:16, 39:03-39:07, 39:09, 39:11-39:12, 39:14- 39:15, 39:18-39:19:02, 39:22, 39:24:01-39:38Q, 39:40:01N-39:48, 39:50-39:57, 39:59-39:62, 39:64- 39:82, 49:26
24	160 bp, 425 bp	1070 bp	7, 703, 8, 14, 15, 16, 21, 39, 3901, 40, 41, 42, 45, 48, 50, 60, 61, 64, 65, 67, 70, 73, 81	*07:02:01-07:26, 07:28-07:35, 07:37, 07:39-07:64, 07:66-07:80, 07:82-07:148, 07:150-07:178, 07:181N- 07:190, 08:01:01-08:01:20, 08:04-08:05, 08:07-08:35, 08:37-08:51, 08:53:01-08:77, 08:79-08:108, 14:01:01- 14:02:04, 14:02:06-14:02:07, 14:02:09-14:29, 14:31- 14:33, 27:14, 27:81, 39:01:01:01-39:01:01:03, 39:01:03-39:20, 39:22-39:24:01, 39:25N-39:82, 40:01:01-40:01:29, 40:06:01:01-40:06:04, 40:06:06- 40:07, 40:09 [?] , 40:11:01 [?] -40:11:02 [?] , 40:14:01 [?] -40:15 [?] , 40:16, 40:18 [?] , 40:21 [?] -40:22N [?] , 40:23, 40:24 [?] -40:38 [?] , 40:42 [?] -40:43 [?] , 40:44, 40:45 [?] -40:46 [?] , 40:48 [?] -40:50 [?] , 40:51, 40:52 [?] , 40:53, 40:54 [?] -40:58 [?] , 40:59-40:60, 40:61 [?] -40:65 [?] , 40:66, 40:67 [?] -40:69 [?] , 40:70, 40:71 [?]

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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 "Instructions for Use" (IFU)

Lot No.: 36S

Lot-specific information

40:72:01-40:73, 40:74?, 40:75, 40:77, 40:78?, 40:79,
 40:80?-40:82?, 40:83, 40:84?-40:85?, 40:86, 40:87:01?
 40:88?, 40:90?-40:92?, 40:93, 40:95?, 40:96, 40:98?
 40:102?, 40:103, 40:104?-40:108?, 40:109-40:110,
 40:111?-40:116?, 40:118N?-40:121?, 40:123?,
 40:124:01, 40:124:02?-40:126?, 40:127, 40:128?
 40:130?, 40:131, 40:132?-40:134?, 40:136?-40:137?,
 40:138-40:140, 40:141?, 40:145?, 40:146-40:148,
 40:149?, 40:150, 40:151?, 40:152-40:153, 40:154?,
 40:155N, 40:156?, 40:158?, 40:159, 40:160:01?
 40:160:02?, 40:161-40:162, 40:163?-40:164?, 40:165,
 40:166?, 40:167, 40:168?-40:171?, 40:172, 40:173?
 40:176?, 40:177, 40:178?-40:185?, 40:186, 40:187?,
 40:189?, 40:190, 40:191?-40:200?, 40:202?-40:213?
 40:215?-40:228?, 40:230, 40:231?-40:238?, 41:01-
 41:27, 42:01:01-42:02, 42:04-42:20, 45:01-45:14,
 48:01:01-48:17, 48:19-48:30, 50:01:01-50:02, 50:04-
 50:20, 50:31-50:32, 51:01:09, 51:01:21, 51:01:25,
 51:10, 51:24:02-51:24:04, 54:11, 56:20:02, 67:01:01-
 67:03, 73:01-73:02, 81:02

25 ¹¹	180 bp	1070 bp	15, 40, 44, *15:116, 15:124, 40:01:01-40:01:06, 40:01:08- 48, 60, 62, 40:01:17, 40:01:19-40:01:29, 40:07, 40:10:01- 71 40:10:02, 40:12, 40:21-40:23, 40:25, 40:30, 40:33- 40:34, 40:36, 40:38, 40:42-40:43, 40:46-40:49, 40:51- 40:52, 40:54-40:55, 40:59-40:63, 40:65-40:67, 40:69, 40:73-40:74, 40:76, 40:79, 40:81, 40:84, 40:87:01- 40:88, 40:92, 40:100-40:102, 40:106, 40:108, 40:112- 40:114, 40:116-40:118N, 40:123-40:126, 40:128, 40:130, 40:132, 40:134-40:135, 40:137-40:141, 40:146-40:147, 40:149-40:156, 40:160:01-40:160:02, 40:163, 40:166, 40:168, 40:170-40:172, 40:175, 40:178-40:179, 40:182-40:183, 40:185-40:188, 40:191, 40:193-40:196, 40:198-40:199, 40:204, 40:207-40:208, 40:210, 40:212-40:213, 40:215- 40:218, 40:221-40:223, 40:227-40:228, 40:231, 40:234-40:236, 40:238, 44:31, 44:169, 46:06, 48:03:01-48:03:02, 48:17, 48:23, 57:59, C*03:129, C*17:16
26 ^{9,19}	290 bp, 465 bp	1070 bp	21, 4005, *13:02:06, 13:26, 15:16:03, 15:20, 15:85, 15:194, 41, 50, 60, 18:48, 35:46, 35:207, 40:02:01-40:06:07, 40:08, 61 40:09?, 40:10:02?-40:11:02?, 40:13, 40:14:01?-40:15?, 40:18?-40:19?, 40:20, 40:22N?, 40:24?-40:38?, 40:39, 40:42?-40:45?, 40:47?-40:50?, 40:52?-40:58?, 40:61?- 40:65?, 40:67?-40:69?, 40:70, 40:71?, 40:72:02?, 40:74?-40:76?, 40:78?, 40:80?-40:82?, 40:84?-40:88?, 40:89, 40:90?-40:92?, 40:94, 40:95?-40:96?, 40:97,

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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 "Instructions for Use" (IFU)

Lot No.: 36S

Lot-specific information

				40:98 [?] -40:121 [?] , 40:122, 40:123 [?] , 40:124:02 [?] -40:136 [?] , 40:141 [?] , 40:142N-40:144N, 40:145 [?] , 40:148 [?] -40:149 [?] , 40:151 [?] , 40:154 [?] , 40:156 [?] -40:169 [?] , 40:171 [?] , 40:173 [?] - 40:176 [?] , 40:178 [?] -40:184 [?] , 40:187 [?] -40:208 [?] , 40:210 [?] - 40:213 [?] , 40:214, 40:216N [?] -40:228 [?] , 40:229, 40:230 [?] - 40:238 [?] , 46:01:07, 46:33, 47:01:01:01-47:08, 57:05, 58:36, C*01:73
27 ⁶	105 bp	1070 bp	7, 8, 22, 41, 42	*07:04, 07:25, 07:146, 08:01:01-08:05, 08:07- 08:12:03, 08:14-08:19N, 08:21-08:24, 08:26-08:39, 08:41-08:54, 08:56:01-08:69, 08:71-08:78, 08:80- 08:102, 08:104-08:108, 35:87, 40:136, 40:231, 41:01- 41:08, 41:10-41:27, 42:01:01-42:02, 42:04-42:07, 42:09-42:18, 42:20, 44:166, 55:20
28	325 bp	800 bp	7, 22, 27, 2708, 35,	*07:02:01-07:02:38, 07:04-07:07, 07:09-07:15, 07:17- 07:26, 07:28-07:31, 07:33-07:36, 07:39-07:46, 07:47 ^w , 42, 45, 46, 07:48-07:49N, 07:51-07:68:03, 07:70-07:84, 07:86- 54, 55, 56, 07:179, 07:181N-07:190, 14:21, 15:76, 15:101, 67, 73, 78, 15:255, 27:01-27:11, 27:13-27:15, 27:17, 27:19-27:21, 81, 82 27:24-27:28, 27:30-27:38, 27:40-27:58, 27:60-27:76, 27:78-27:91, 27:93-27:105, 35:76, 35:186, 35:229, 38:26, 40:166, 42:01:01-42:02, 42:04-42:06, 42:08- 42:10, 42:12-42:20, 44:90, 44:97, 45:06, 46:01:01- 46:01:09, 46:02 ^w , 46:03-46:38, 54:01:01-54:28, 55:01:01-55:05, 55:07-55:17, 55:19-55:58, 56:01:01- 56:16, 56:18-56:22, 56:24-56:32, 56:34-56:39, 67:01:01-67:03, 73:01-73:02, 81:01-81:06, 82:01- 82:03, 83:01
29 ⁶	115 bp, 160 bp, 195 bp 225 bp, 260 bp	1070 bp	35, 37, 44, 47, 57	*08:49, 08:60, 08:76, 08:87, 35:38, 35:45, 35:71, 35:115, 35:169, 37:01:01-37:01:07, 37:01:09, 37:03N- 37:06, 37:08, 37:10-37:37, 40:132, 40:178, 40:231, 42:13, 44:02:01:01-44:03:16, 44:03:18-44:14, 44:16- 44:17, 44:19N-44:36, 44:38-44:63, 44:65-44:134, 44:136-44:149N, 44:151-44:157, 44:159-44:165, 44:167-44:175, 51:42, 53:22, 57:07, 57:09, 57:24, 83:01, C*15:25
30	215 bp	800 bp	5, 8, 12, 41, 42, 44, 41:26, 42:04, 44:06, 44:15, 44:18, 44:20, 44:100, 45, 51, 45:01-45:14, 51:01:01, 51:01:03-51:01:08, 51:01:10- 5102, 51:01:39, 51:01:41-51:02:01, 51:02:03-51:04, 5103, 52, 51:06:01-51:07:01, 51:08-51:09:01, 51:10-51:14, 53, 56, 62 51:16-51:24:04, 51:26-51:46, 51:48-51:53, 51:55- 51:77, 51:79-51:88, 51:90-51:92, 51:94-51:102, 51:104-51:115, 51:117-51:118N, 51:120-51:131, 51:133-51:143, 51:145-51:147, 51:149N-51:152, 52:01:02, 52:01:04, 52:01:09, 52:02-52:03, 52:06:01- 52:06:02, 52:09, 52:19, 52:21, 53:06, 55:20, 55:56,	

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 36S**Lot-specific information**

56:13, 58:08:01

31	130 bp, 270 bp	800 bp	17, 18, 22, *14:10, 15:57 ^w , 18:22, 18:69, 35:21, 35:24:01-35, 37, 46, 35:24:02, 35:81, 35:96, 35:109, 35:157, 35:188, 51, 53, 62, 35:190, 37:04:01-37:04:02, 40:28, 46:01:01-46:38, 78 51:04, 51:46, 51:56:01-51:56:02, 51:139, 53:02, 53:06, 53:28, 57:14, 58:09, C*01:73, C*15:39
32^{6,12}	90 bp, 410 bp	1070 bp	15, 22, 27, *07:65, 27:01 ^w , 27:02:01-27:11, 27:13-27:15, 27:17, 35, 47, 54, 27:19-27:21, 27:24-27:28, 27:30-27:38, 27:40-27:58, 55, 56, 78, 27:60-27:76, 27:78-27:91, 27:93-27:105, 35:76, 81, 82 35:186, 35:229, 44:90, 44:97, 47:01:01-47:03, 47:06-47:08, 54:01:01-54:28, 55:01:01-55:05, 55:07-55:17, 55:19-55:58, 56:01:01-56:16, 56:18-56:22, 56:24-56:32, 56:34-56:39, 81:01, 82:01-82:03, 83:01
33⁶	90 bp, 175 bp	1070 bp	15, 27, 35, *07:174, 13:36, 15:02:01-15:02:06, 15:08, 15:11:01-48, 60, 62, 15:11:05, 15:13:01-15:13:02, 15:15, 15:21, 15:31, 75, 77, 81 15:44, 15:55, 15:76 ^w , 15:88-15:89, 15:112, 15:121, 15:139, 15:144, 15:148, 15:170, 15:189, 15:191, 15:194, 15:209N, 15:213-15:215, 15:223, 15:265, 27:24, 35:46, 40:31, 40:45, 40:80, 48:01:01-48:01:04, 48:04, 48:06-48:07, 48:09, 48:11, 48:15-48:16, 48:18-48:20, 48:22, 48:24, 48:27-48:30, 56:39 ^w , 81:01-81:06
34	145 bp, 430 bp	1070 bp	44, 49, 59, *40:13, 40:19, 40:109, 40:117, 44:18, 44:25, 44:50, 61 44:95, 49:01:01-49:01:04, 49:04-49:25, 51:112, 53:30, 54:12, 56:21, 57:45, 57:51, 59:01:01-59:05
35⁶	120 bp, 210 bp	800 bp	5, 13, 15, *07:78, 07:84, 13:16, 13:31 ^w , 13:48, 13:62, 15:04 ^w , 17, 22, 35, 15:16:01-15:16:03, 15:42, 15:67, 15:95, 15:137 ^w , 45, 49, 50, 15:254, 40:95, 40:148, 40:161, 46:32 ^w , 49:01:01, 51, 5102, 49:01:03-49:10, 49:12-49:26, 50:01:01-50:02, 50:04-5103, 52, 50:11, 50:13-50:16, 50:18-50:20, 50:31-50:32, 55, 56, 62, 51:01:01-51:03, 51:05, 51:07:01-51:09:02, 51:11N-63, 78 51:14, 51:16-51:24:04, 51:26-51:41N, 51:43-51:44N, 51:48-51:55, 51:57-51:58, 51:60-51:61:02, 51:63, 51:65-51:80, 51:82-51:134, 51:136-51:138, 51:140-51:147, 51:149N-51:152, 52:01:01:01-52:31, 54:20, 55:01:01-55:01:06, 55:01:08-55:01:10, 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, 55:52-55:55N, 55:58, 56:05:01-56:06, 56:21, 56:25, 56:37, 58:08:01-58:08:02, 78:01:01-78:07
36	430 bp	1070 bp	5, 17, 27, *18:67, 27:02:01-27:02:02, 27:30, 27:53, 27:57, 27:62, 44, 51, 27:65N, 27:75, 27:77, 27:83, 27:95, 27:102, 37:34, 5102, 40:13, 40:19, 40:109, 40:117, 44:06, 44:25, 44:50, 5103, 52, 44:95, 51:01:01-51:01:39, 51:01:41-51:24:04, 51:26-53, 57, 58, 51:46, 51:48-51:53, 51:55-51:77, 51:79-51:152, 61 52:01:01-52:19, 52:21-52:31, 53:01:01-53:02,

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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"Instructions for Use" (IFU)

Lot No.: 36S**Lot-specific information**

			53:04-53:08:02, 53:10, 53:14-53:30, 57:01:01-57:11, 57:13-57:64, 58:01:01-58:02, 58:04-58:16, 58:18- 58:29, 58:31N-58:40, 58:42
37	145 bp	1070 bp	12, 21, 35, *07:133, 15:46, 15:53, 15:106, 15:143, 15:212, 18:48, 40, 4005, 35:19, 35:47, 35:63, 35:154, 35:217, 39:69, 40:01:01- 41, 45, 47, 40:11:02, 40:14:01-40:16, 40:18, 40:20, 40:22N-40:40, 50, 60, 61 40:42-40:45, 40:48-40:75, 40:77-40:92, 40:94-40:95, 40:97-40:108, 40:111-40:116, 40:118N-40:136, 40:138-40:156, 40:158-40:184, 40:186-40:187, 40:189-40:200, 40:202-40:207, 40:210-40:238, 41:01- 41:04, 41:05 ² , 41:06-41:25, 41:27, 44:09, 44:46, 44:75, 44:90, 44:129, 44:131, 45:01-45:14, 47:02, 47:03 ^w , 50:01:01-50:02, 50:04-50:05, 50:07-50:20, 50:31-50:32
38	300 bp	1070 bp	7, 12, 13, *07:54, 07:123, 08:17, 08:38, 08:54, 08:101, 13:01:01- 15, 17, 18, 13:04, 13:06, 13:08Q-13:23, 13:25-13:35, 13:37- 21, 27, 13:67, 15:01:01:01-15:01:04, 15:01:06-15:01:18, 2708, 35, 15:01:20-15:01:32, 15:03:01-15:07:02, 15:12, 15:14, 37, 38, 39, 15:19-15:20, 15:24:01-15:27:03, 15:30, 15:32-15:36, 3902, 40, 15:38:01-15:40, 15:42-15:43, 15:45-15:50, 15:53- 4005, 41, 15:54, 15:56-15:58, 15:60-15:63, 15:65-15:66, 15:68- 44, 45, 47, 15:71, 15:73-15:75, 15:77-15:79N, 15:81-15:87, 48, 49, 50, 15:91-15:92, 15:94N, 15:96-15:98, 15:101-15:107, 52, 60, 61, 15:109-15:111N, 15:113, 15:116-15:118, 15:122- 62, 70, 72, 15:123, 15:125-15:129, 15:131-15:132, 15:135- 76 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, 15:199, 15:201-15:207, 15:210-15:212, 15:217- 15:220, 15:224-15:225, 15:227-15:228, 15:231- 15:237, 15:239-15:245Q, 15:247-15:251, 15:253, 15:255-15:262N, 15:264, 15:266-15:267, 15:269- 15:272N, 15:274, 18:12, 27:01-27:21, 27:24-27:91, 27:93-27:105, 35:10, 35:13, 35:16, 35:28, 35:63, 35:69, 35:80, 35:207, 35:226, 37:01:01-37:07, 37:09- 37:37, 38:03-38:04, 38:25, 39:02:01-39:02:02, 39:08, 39:13:01-39:13:02, 39:22-39:23, 39:49, 40:01:01- 40:07, 40:09-40:16, 40:18-40:24, 40:26-40:40, 40:42- 40:67, 40:70-40:105, 40:107-40:165, 40:167-40:231, 40:233-40:238, 41:01-41:27, 42:11, 44:02:01:01- 44:02:21, 44:02:23-44:05:04, 44:07-44:11, 44:13- 44:170, 44:172-44:175, 45:01-45:14, 47:01:01:01- 47:08, 48:01:01-48:05, 48:07-48:15, 48:17-48:30, 49:01:01-49:25, 50:01:01-50:02, 50:04-50:14, 50:16- 50:20, 50:31-50:32, 52:01:01:01-52:31, 53:17:01- 53:17:02, 53:28, 55:18, 55:34, 55:40, 78:05-78:06

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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 "Instructions for Use" (IFU)

Lot No.: 36S

Lot-specific information

39^{8,13}	160 bp, 330 bp	1070 bp	22, 44, 45, *08:87, 44:02:01:01-44:02:29, 44:06, 44:08-44:09, 47, 54 44:11-44:12, 44:16, 44:19N-44:24, 44:27:01-44:27:02, 44:33-44:34:02, 44:41:01-44:41:02, 44:44, 44:48- 44:49, 44:52N-44:53, 44:55, 44:59:01-44:59:02, 44:63, 44:66-44:68, 44:71-44:74, 44:80, 44:83-44:84, 44:86- 44:87, 44:89-44:91, 44:93, 44:95, 44:97, 44:99- 44:102, 44:104, 44:106, 44:112-44:113, 44:116, 44:118-44:119, 44:121, 44:126:01-44:127, 44:131- 44:132, 44:137-44:138Q, 44:142Q, 44:145, 44:148- 44:149N, 44:151-44:152, 44:162, 44:168-44:173, 54:01:01, 54:01:03-54:28, 83:01	
40	180 bp, 210 bp	1070 bp	13, 15, 18, *07:65, 13:06, 13:53, 15:42, 15:86, 15:224, 18:04, 35, 39, 40, 35:08:05, 35:42:02, 35:60, 35:185, 39:17, 39:63, 54, 55, 56, 40:01:11, 40:58, 45:08, 46:18, 54:01:01-54:02, 59, 78 54:05N, 54:07-54:08N, 54:10, 54:12-54:13, 54:16- 54:25, 54:27-54:28, 55:01:01-55:03, 55:05, 55:07, 55:10-55:12, 55:15-55:16, 55:18-55:19, 55:21, 55:25- 55:26, 55:29-55:31, 55:33-55:45, 55:47-55:48, 55:50, 55:52-55:57, 56:05:01, 56:06, 56:10, 56:23, 59:01:01:01-59:01:01:02, 59:05, 78:01:01-78:01:02, 78:02:02-78:03, 78:07, C*15:02:04	
41	180 bp	1070 bp	12, 15, 21, *13:03, 13:48, 15:73, 40:71, 44:10, 44:15, 44:18, 22, 44, 45, 44:140, 45:01, 45:04-45:07, 45:11-45:14, 46:11, 49, 50, 51, 49:01:01-49:03, 49:06, 49:08-49:17, 49:19N-49:26, 56, 61, 62, 50:01:01-50:02, 50:04-50:08, 50:10-50:13, 50:15- 82 50:19, 50:32, 51:15, 51:62, 51:106, 52:25, 54:03, 56:01:01-56:01:04, 56:02, 56:04, 56:07-56:08, 56:13- 56:14, 56:16-56:17, 56:20:01-56:20:02, 56:24-56:30, 56:33-56:39, 59:04, 82:01-82:03, C*03:19, C*03:102	
42⁶	90 bp, 240 bp	800 bp	57	*55:14, 57:01:01-57:44, 57:46-57:50, 57:52-57:61, 57:63-57:64, 58:36, C*06:72
43^{6,12}	90 bp	1070 bp	5, 13, 17, *07:182N, 13:11, 15:18:03, 15:73, 15:224, 39:17, 39, 55, 56, 40:48, 40:71, 51:62, 56:02, 56:04, 56:10, 58:01:01- 58, 60, 61, 58:02, 58:04-58:29, 58:31N-58:35, 58:37-58:40, 62, 71 58:42, C*02:06^w, C*02:47^w	
44⁶	95 bp	1070 bp	8, 18, 22, *07:65 ^w , 07:134 ^w , 08:32, 18:01:01:01-18:11, 18:13- 35, 37, 38, 18:15, 18:17N-18:36, 18:38-18:47, 18:49-18:65, 39, 44, 51, 18:67-18:89, 35:01:01:01-35:08:04, 35:08:06- 5102, 35:09:03, 35:11:01-35:12:03, 35:14:01-35:15, 35:17- 5103, 53, 35:18, 35:20:01-35:24:02, 35:27, 35:29:01-35:45, 78 35:48, 35:50-35:62, 35:64:01-35:68:02, 35:70-35:72, 35:74-35:75, 35:76 ^w , 35:77-35:79, 35:81-35:153, 35:155-35:185, 35:187-35:190, 35:192-35:197, 35:199-35:206, 35:208-35:209, 35:211-35:216N, 35:218-35:225, 35:227-35:229, 37:08, 38:06-38:07, 39:19:01-39:19:02, 44:06, 51:01:01-51:24:04,	

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 36S**Lot-specific information**

			51:26-51:46, 51:48-51:103, 51:105-51:111, 51:113-51:117, 51:119-51:146, 51:148-51:152, 53:01:01-53:16, 53:18-53:27, 53:29, 56:06 ^w , 78:01:01-78:04, 78:07
45^{6,8,9}	115 bp, 150 bp	1070 bp	15, 18,22, *07:100, 13:31, 13:41, 15:01:01:01-15:01:04, 27, 35, 39, 15:01:06-15:01:16, 15:01:18-15:01:30, 15:01:32, 46, 55, 62, 15:04, 15:07:01-15:08, 15:11:01-15:12, 15:14-15:15, 72, 73, 75, 15:19, 15:24:01-15:24:02, 15:26N-15:28, 15:30, 15:32, 76 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, 15:239, 15:241, 15:244-15:247, 15:251, 15:256-15:262N, 15:264, 15:267, 15:269-15:270, 15:272N, 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, 35:185, 35:213, 39:18, 39:36, 44:146, 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, 46:26-46:32, 46:34-46:38, 51:61:01-51:61:02, 52:21, 54:06, 55:21, 56:03, 73:01-73:02, A*26:68, A*68:56, C*02:56, C*06:20, C*12:50
46¹⁴	360 bp	1070 bp	Bw4
47	350 bp	1070 bp	Bw6
48	285 bp	800 bp	7, 703, 8, *07:02:01-07:06, 07:08-07:18:02, 07:20-07:32, 07:34-35, 40, 41, 07:39, 07:41-07:52, 07:54-07:59, 07:61-07:76, 07:79-42, 48, 60, 07:83, 07:85-07:99, 07:101-07:121, 07:123-07:138, 61, 81 07:140-07:164, 07:166-07:190, 08:01:01-08:05, 08:07-08:08N, 08:10-08:11, 08:13-08:15, 08:17-08:83, 08:85-08:88, 08:90-08:102, 08:104-08:106, 08:108, 35:66, 35:87, 37:07, 40:15-40:16, 40:30-40:32, 40:34, 40:45, 40:59, 40:80, 40:98, 40:137, 40:160:01-40:160:02, 41:02:01-41:02:05, 41:04, 41:10-41:11, 41:13, 41:18-41:19, 41:23-41:24, 41:27, 42:01:01-42:02, 42:05:01-42:07, 42:09-42:13, 42:15-42:20, 44:150, 44:166, 48:01:01-48:01:04, 48:05-48:12, 48:14-48:20, 48:22, 48:27-48:30, 53:15, 81:01-81:06

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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"Instructions for Use" (IFU)

Lot No.: 36S**Lot-specific information**

49	165 bp, 190 bp	1070 bp	5, 17, 21, 35, 51, 5102, 52, 56, 62, 70, 78	*13:62, 15:01:02, 15:09, 15:243, 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, 51:48-51:61:02, 51:63-51:80, 51:82-51:91, 51:94- 51:98N, 51:100-51:130, 51:132-51:142, 51:145- 51:147, 51:149N-51:152, 52:01:01:01-52:01:04, 52:01:06-52:01:14, 52:01:16-52:13, 52:15-52:24, 52:26-52:31, 53:28, 56:05:01-56:06, 56:21, 58:08:01- 58:08:02, 78:01:01-78:07
50	260 bp	800 bp	14, 16, 18, 51, 62, 70	*14:06:01-14:06:02, 14:08, 15:37-15:38:02, 15:185, 18:01:01:01-18:01:15, 18:01:17-18:01:18, 18:03- 18:09, 18:12-18:13, 18:15, 18:17N-18:20, 18:23N- 18:26, 18:28-18:34, 18:36-18:38, 18:40-18:43, 18:45- 18:55, 18:57, 18:59-18:68, 18:70-18:89, 39:32, 39:43, 39:48, 40:51, 40:113, 40:163, 51:06:01-51:06:02, 51:45, 51:62, 51:135, 56:31, C*08:51
51	390 bp	1070 bp	18, 35, 44, 51, 5102, 5103, 52, 53, 61, 78	*18:07:01-18:07:02, 18:29, 18:79, 27:23, 35:01:01:01- 35:19, 35:21-35:25, 35:27, 35:29:01-35:62, 35:64:01- 35:71, 35:74-35:75, 35:77, 35:79-35:81, 35:83-35:84, 35:86-35:94, 35:96-35:134N, 35:136-35:185, 35:187- 35:225, 35:227-35:228, 37:21, 40:08, 40:13, 40:68 [?] , 40:106 [?] , 40:162 [?] , 40:220 [?] , 40:232 [?] , 44:06, 51:01:01- 51:06:02, 51:08-51:21, 51:23-51:24:04, 51:26-51:46, 51:48-51:127, 51:129-51:152, 52:06:01-52:06:02, 53:01:01-53:08:02, 53:10-53:16, 53:18-53:27, 53:29- 53:30, 78:01:01-78:02:02, 78:04, 78:07
52	380 bp	1070 bp	5, 8, 17, 48, 51, 5102, 5103, 52, 57, 58, 59, 51:46, 51:48-51:49, 61	*08:03, 08:52, 08:78, 27:102, 40:13, 40:19, 40:109, 40:117, 48:18, 49:18, 51:01:01-51:01:07, 51:01:09- 51:01:14, 51:01:16-51:01:39, 51:01:41-51:12, 51:16- 51:24:04, 51:26-51:36, 51:38-51:41N, 51:43-51:44N, 51:64-51:77, 51:79-51:84, 51:86-51:89, 51:91, 51:93- 51:96, 51:98N-51:105, 51:107-51:134, 51:136-51:152, 52:01:01:01-52:11, 52:13, 52:15-52:19, 52:21-52:24, 52:27-52:31, 53:19, 56:21, 57:02:01-57:03:02, 57:05, 57:07, 57:09, 57:17, 57:39, 57:42, 57:46, 57:57, 57:63, 58:08:01-58:08:02, 58:27-58:28, 59:02, A*24:146
53	160 bp	1070 bp	44, 51, 54	*08:101, 44:24, 51:39, 54:01:01-54:01:04, 54:03- 54:04, 54:06-54:28, C*05:30
54^{6,15}	125 bp, 150 bp, 260 bp, 630 bp	1070 bp	17, 35, 37, 40, 44, 45, 47, 49, 57, 61	*18:09, 18:54, 18:56, 18:67, 35:45, 35:71, 35:169, 37:06, 40:13, 40:19, 40:47, 40:96, 40:109-40:110, 40:132, 40:157, 40:178, 40:188, 40:201, 44:02:01:01-44:175, 45:01-45:03, 45:05-45:07, 45:09, 45:11-45:14, 47:01:01:01-47:01:02, 47:03-47:08, 49:01:01-49:02, 49:04-49:20, 49:22-49:25, 50:02,

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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 "Instructions for Use" (IFU)

Lot No.: 36S

Lot-specific information

				51:42, 51:112, 53:22, 53:30, 57:07, 57:45, 57:51, 83:01, A*24:02:37, C*15:25
55	235 bp	1070 bp	7, 703, 27, *07:02:01-07:06, 07:08-07:11, 07:13, 07:15-07:17, 35, 40, 48, 07:21-07:23, 07:25-07:30, 07:32-07:33, 07:35-07:42, 60, 61, 81 07:44-07:59, 07:61-07:76, 07:79-07:83, 07:85-07:99, 07:101-07:130, 07:132-07:136, 07:138-07:161N, 07:164-07:190, 08:40, 08:79, 27:07:01-27:07:03, 27:11, 27:24, 27:32-27:34, 27:43, 35:31, 35:66, 37:07, 40:02:01-40:03, 40:08-40:09, 40:13, 40:15-40:16, 40:18-40:19, 40:24, 40:27:01-40:27:02, 40:29, 40:31- 40:32, 40:35, 40:37, 40:40, 40:45, 40:50, 40:56-40:58, 40:78, 40:80, 40:82, 40:85, 40:89-40:91, 40:94, 40:97- 40:98, 40:104-40:105, 40:107, 40:111, 40:115, 40:119, 40:122, 40:142N-40:145, 40:157, 40:164, 40:169, 40:173, 40:176, 40:180-40:181, 40:189, 40:200-40:203, 40:205-40:206, 40:209, 40:211, 40:214, 40:219-40:220, 40:224, 40:226, 40:229, 40:232, 41:19, 48:01:01-48:01:04, 48:04-48:16, 48:18- 48:20, 48:22, 48:24, 48:27-48:30, 51:81, 58:27, 81:01- 81:06, C*02:60	
56 ¹⁶	550 bp	1070 bp	7, 22, 42, 45, 56, 82	*07:04, 07:19, 07:25, 07:146, 42:01:01-42:02, 42:04- 42:10, 42:12-42:18, 42:20, 44:90, 45:06, 55:20, 55:56, 56:13, 82:01 ^w , 82:02, 82:03 ^w , 83:01
57 ¹⁶	640 bp	1070 bp	7, 8, 14, 16, 22, 27, 38, 39, 3901, 3902, 42, 55, 59, 64, 65, 67, 71, 72	*07:19, 07:31, 07:34, 07:43, 08:01:01-08:05, 08:07- 08:10, 08:12:01-08:20, 08:22-08:24, 08:26-08:31, 08:33-08:39, 08:41-08:78, 08:80-08:108, 14:01:01- 14:06:02, 14:08-14:18, 14:20-14:26, 14:28-14:33, 15:69, 15:93, 15:186, 15:252, 18:37, 27:15, 27:28, 38:23-38:29, 38:31-38:43, 39:01:01:01-39:01:01:03, 39:01:03-39:01:05, 39:01:07-39:18, 39:20, 39:22- 39:31, 39:34-39:37, 39:39:01-39:39:02, 39:41-39:46, 39:48-39:49, 39:51-39:68, 39:70-39:73, 39:75-39:82, 42:01:01-42:02, 42:04-42:20, 55:01:01-55:05, 55:10- 55:21, 55:23, 55:25-55:34, 55:36-55:50, 55:52-55:58, 56:10, 56:12, 56:18, 56:23, 56:31-56:32, 59:01:01:01- 59:03, 59:05, 67:01:01-67:01:03, 67:03, C*07:46
58 ⁶	90 bp, 125 bp, 155 bp, 190 bp	1070 bp	5, 17, 45, 51, 56, 60, 61, 78	*07:65, 07:133, 39:63, 39:69, 40:43, 40:50, 40:166, 41:27, 44:90, 45:06, 51:20 ^w , 56:05:01, 56:06, 57:45, 57:51, 58:08:01, 78:01:01-78:01:02, 78:03, 78:07
59	455 bp	1070 bp	21, 52, 60, 62	*13:62, 15:01:02, 40:01:06, 40:26, 40:28, 40:95, 44:62, 49:18, 50:14, 52:01:01-52:01:04, 52:01:06- 52:01:14, 52:01:16-52:05, 52:07-52:13, 52:15-52:17, 52:19-52:24, 52:26-52:31, 53:28, 58:08:01-58:08:02,

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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Lot No.: 36S**Lot-specific information**

78:05-78:06

60⁶	105 bp	800 bp	18, 27, 35, *13:58, 15:202, 15:239, 18:01:01:01-18:06, 18:08-37, 49, 51, 18:15, 18:17N-18:28, 18:30-18:32, 18:34-18:36, 52, 53 18:38-18:47, 18:49-18:65, 18:67-18:78, 18:80-18:89, 35:20:01-35:20:02, 35:28, 35:72, 35:95, 35:226, 37:01:01-37:01:05, 37:01:07-37:05, 37:07-37:20, 37:22-37:25, 37:27, 37:29-37:37, 40:185, 40:209, 44:83, 44:134, 49:03, 51:07:01-51:07:02, 52:01:01:01-52:01:12, 52:01:14-52:01:17, 52:03-52:05, 52:07-52:15, 52:17-52:21, 52:24-52:31, 53:09, 53:17:01-53:17:02, 53:28, 78:05-78:06
61⁶	90 bp, 120 bp, 150 bp, 180 bp	800 bp	7, 35, 61, 62, 73 *07:11, 07:57, 07:75, 13:39, 13:67, 15:57, 15:135, 27:67, 27:75, 35:27, 35:56, 35:185, 35:203, 37:05, 40:37, 42:15, 44:75, 44:97, 73:01-73:02, 78:06
62	435 bp	1070 bp	39, 42, 55, *07:115, 14:21, 38:26, 39:10:01, 39:16, 39:20, 39:63, 56, 67 42:06, 42:20, 55:13, 55:58, 56:11, 56:22, 67:01:01-67:01:03, 67:03
63^{6,8}	95 bp	1070 bp	5, 13, 15, *07:68:01-07:68:03, 07:100, 08:71, 13:01:01-13:04, 16, 17, 18, 13:06-13:09, 13:11-13:20, 13:22:01-13:23, 13:25-21, 22, 27, 13:33, 13:35-13:45, 13:47-13:50, 13:52-13:67, 14:13, 35, 38, 39, 14:23, 15:01:01-15:01:04, 15:01:06-15:01:32, 3901, 15:03:01-15:05:02, 15:07:01-15:12, 15:14-15:16:03, 3902, 44, 15:18:01-15:20, 15:23-15:24:02, 15:26N-15:30, 15:32, 46, 48, 49, 15:34-15:35, 15:37-15:40, 15:42-15:43, 15:45-15:54, 51, 5102, 15:56-15:58, 15:60-15:71, 15:73-15:76, 15:79N-15:87, 5103, 52, 15:90-15:99, 15:101-15:105, 15:108-15:111N, 15:113-53, 54, 55, 15:115, 15:117-15:120, 15:122-15:127, 15:129, 56, 57, 58, 15:131-15:136, 15:138, 15:140, 15:142-15:143, 59, 60, 15:145-15:149N, 15:151-15:155, 15:157-15:161, 61, 62, 63, 15:163-15:167, 15:169, 15:171-15:176, 15:178-67, 70, 71, 15:187, 15:189-15:195, 15:197-15:203, 15:205-72, 75, 76, 15:206, 15:209N-15:210, 15:212, 15:215, 15:217-78, 82 15:229, 15:231-15:232, 15:234-15:239, 15:241-15:247, 15:249, 15:251-15:264, 15:266-15:270, 15:272N, 15:274-15:275, 18:01:01:01-18:01:03, 18:01:05-18:15, 18:17N-18:19, 18:22-18:39, 18:41-18:60, 18:62-18:89, 27:27, 27:41, 35:01:01:01-35:08:06, 35:10-35:17, 35:19-35:30, 35:32:01-35:52, 35:54-35:63, 35:65Q-35:72, 35:74-35:86, 35:89-35:113, 35:115-35:117, 35:119-35:130N, 35:132-35:163, 35:165N-35:173N, 35:175-35:204, 35:206-35:214, 35:216N-35:229, 37:35, 38:01:01-38:21, 38:23-38:43, 39:01:01-39:01:01:03, 39:01:03-39:16, 39:18-39:20, 39:22-39:67, 39:69-39:82, 40:26, 40:28, 40:35, 40:71, 40:77, 40:87:01-40:87:02, 40:95, 40:121, 40:158, 40:184, 40:222, 40:237, 41:24, 42:10,

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 36S

Lot-specific information

42:17, 44:10, 44:14, 44:17, 44:43:01-44:43:02, 44:45,
 44:51, 44:62, 44:77, 44:82, 44:107, 44:123, 44:135,
 45:09, 45:14, 46:01:01-46:01:05, 46:01:07-46:05,
 46:07N-46:38, 48:02:01-48:02:03, 48:12, 48:14, 48:25,
 48:29, 49:04, 51:01:01-51:09:02, 51:11N-51:16,
 51:19-51:23, 51:26-51:41N, 51:43-51:46, 51:48-51:80,
 51:82-51:84, 51:86-51:147, 51:149N-51:152,
 52:01:01:01-52:25, 52:27-52:31, 53:01:01-53:06,
 53:08:01-53:30, 54:01:01-54:10, 54:12-54:14, 54:16-
 54:28, 55:01:01-55:03, 55:05, 55:07, 55:09-55:19,
 55:21-55:40, 55:42-55:48, 55:50, 55:52-55:57,
 56:01:01-56:01:03, 56:01:05-56:19N, 56:21-56:39,
 57:01:01-57:01:04, 57:01:06-57:03:02, 57:06-57:12,
 57:14-57:30, 57:33-57:40, 57:42-57:46, 57:48-57:64,
 58:01:01-58:01:02, 58:01:04-58:02, 58:04-58:26,
 58:28-58:29, 58:31N-58:40, 58:42, 59:01:01:01-
 59:01:01:02, 59:03-59:05, 67:01:01-67:02, 78:01:01-
 78:07, 82:01-82:03

64¹⁷

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

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 inherit 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 typing.

In addition, wells number 4 to 6, 10, 17, 20, 21, 28, 30, 31, 35, 42, 48, 50, 60 and 61 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.

⁴For several HLA Class I alleles 1st and/or 4th exon(s) and beyond, as well as intron nucleotide sequences, are not available. In these instances it is not known whether some of the primers of the SSP sets are completely matched with the target sequences or not. We assume that unknown sequences in these regions are conserved within allelic groups.

101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S**Lot-specific information**

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, C*03:27, C*03:143 and C*03:167 alleles, primer mix 4 will amplify the C*01:30 and C*12:87 alleles, primer mix 6 will amplify the A*23:31, A*24:106, C*07:231 and C*16:10 alleles, primer mixes 7 will amplify the C*01:73, C*07:02:30 and C*08:16:02 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 19 will amplify the C*03:179 allele, primer mix 20 will amplify the C*07:302 allele, primer mix 21 will amplify the C*15:51 allele, primer mix 25 will amplify the C*03:129 and C*17:16 alleles, primer mix 26 will amplify the C*01:73 allele, primer mix 29 will amplify the C*15:25 allele, primer mix 31 will amplify the C*01:73 and C*15:39 alleles, primer mix 40 will amplify the C*15:02:04 allele, primer mix 41 will amplify the C*03:12 and C*03:102 alleles, primer mix 42 will amplify the C*06:72 allele, primer mix 43 will weakly amplify the C*02:06 and C*02:47 alleles, primer mix 45 will amplify the A*26:68, A*68:56, C*02:56, C*06:20 and C*12:50 alleles, primer mix 50 will amplify the C*08:51 allele, primer mix 52 will amplify the A*24:146 allele, primer mix 53 will amplify the C*05:30 allele, primer mix 54 will amplify the A*24:02:37 and C*15:25 alleles, primer mix 55 will amplify the C*02:60 allele and primer mix 57 will amplify the C*07:46 allele.

⁶HLA-specific PCR products shorter than 125 base pairs have a lower intensity and are less sharp than longer PCR products.

⁷Primer mix 4 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes in the B*40, B*41, B*45, B*49 and B*50 alleles.

⁸Primer mixes 4, 5, 39, 45 and 63 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes.

⁹Primer mixes 1, 19, 20, 26 and 45 have a tendency to giving rise to primer oligomer formation.

¹⁰Primer mix 13 may have tendencies of unspecific amplifications.

¹¹The C*17:01 to C*17:04 alleles might be faintly amplified by primer mix 25.

¹²Primer 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 typings.

¹³Primer mix 39 may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low resolution primer mixes in the B*54 alleles.

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

¹⁵In primer mix 54, the specific PCR product of 630 base pairs may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low primer mixes.

¹⁶In primer mixes 56 and 57, the specific PCR product may give rise to a lower yield of HLA-specific PCR product than the other HLA-B low primer mixes.

¹⁷Primer mix 64 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.

¹⁸Primer mix 4 amplifies the B*15:143, 35:19, 40:170, 44:07 and 50:07 alleles in addition to the alleles specified in the table.

¹⁹Primer mix 26 amplifies the B*37:06:01 allele in addition to the alleles specified in the table.

‘w’, might be weakly amplified.

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

101.501-48/12 – including Taq polymerase, IFU-01
 101.501-48u/12u – without Taq polymerase, IFU-02

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Lot No.: 36S

Lot-specific information

			INTERPRETATION TABLE																																										
			HLA-B low resolution SSP																																										
			Amplification patterns of the B*07:02 to B*83:01 alleles																																										
			Well ⁵																																										
Length of spec.			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											
PCR product(s)			110	215	235	140	265	130	235	185	190	290	300	180	195	105	80	150	135	150	60	210	170	110	395	425	160	180	260	465	200	105	325	270	130	410									
Length of int. pos. control ¹			800	800	1070	1070	800	800	1070	1070	330	220	165	195	105	435	395	165	150	115	400	245	60	210	170	110	395	425	160	180	260	465	200	105	325	270	130	410							
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	25	26	27	28	29	30	31	32											
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	25	26	27	28	29	30	31	32											
HLA-B allele ^{2,6}			ser. ³																																										
*07:02:01-07:02:31, 07:02:33- 07:02:38, 07:05:01-07:06, 07:10, 07:13, 07:15, 07:21- 07:23, 07:26, 07:29-07:30, 07:35, 07:39, 07:41-07:42, 07:44-07:46, 07:49N, 07:52, 07:55-07:56:02, 07:58-07:59, 07:61-07:64, 07:66-07:67N, 07:70-07:72, 07:74, 07:76, 07:79-07:80, 07:82-07:83, 07:86-07:99, 07:101-07:114, 07:116-07:121, 07:124- 07:130, 07:132, 07:135N- 07:136, 07:138, 07:140- 07:145, 07:147-07:148, 07:150-07:154, 07:156- 07:161N, 07:166-07:173, 07:175-07:178, 07:181N, 07:183-07:190			B7, Null, -	1																																									
*07:02:32			-	1			5																																						
*07:03, 07:08, 07:16, 07:32, 07:37			B703, -	1																																									
*07:04, 07:25, 07:146			B7, -	1															14																										
*07:07, 07:77			B7, -	1																																									
*07:09, 07:17			B7	1															12																										
*07:11			B7	1														12																											
*07:12, 07:14, 07:18:01- 07:18:02, 07:137, 07:163			B7, -	1																																									
*07:19			-																																										
*07:20, 07:24, 07:131			B7, -	1	3																																								
*07:27			-	1														11																											
*07:28			-	1														6																											
*07:31, 07:34, 07:43			B7, B42, -	1																																									
*07:33, 07:40, 07:53, 07:122, 07:139, 07:165			B7, -	-																																									
*07:36, 07:81, 07:149			-	1																																									
*07:38			-	1																																									
*07:47			-	1																																									
*07:48, 07:51, 07:155, 07:164			-																																										
*07:50			-	1														11																											
*07:54, 07:123			-	1																																									
*07:57, 07:75			B7, -	1																																									
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	25	26	27	28	29	30	31	32										

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

INTERPRETATION TABLE

HLA-B low resolution SSP

Amplification patterns of the B*07:02 to B*83:01 alleles



101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S

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	25	26	27	28	29	30	31	32				
*07:60	-			3																				24		28											
*07:65	-		1																18												28						
*07:68:01-07:68:03	-	1																								24		28									
*07:69, 07:85	-	1																								23	24										
*07:73	-	1															16								24		28										
*07:78	-	1															10								24		28										
*07:84	-	1																							24		28										
*07:100	-			3																					24		28										
*07:115	-	1																							24		28										
*07:133	-	1																							24		28										
*07:134	-	1																	18						24		28										
*07:162	-	1															12							24		28											
*07:174	-	1																						24		28											
*07:179	-	1																											28								
*07:180	-	1																						23													
*07:182N	Null	1																						24		28											
*08:01-01-08:01:20, 08:05, 08:08N, 08:10, 08:15, 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, 08:53-01-08:53:02, 08:56:01- 08:59:02, 08:61, 08:63- 08:64, 08:66-08:69, 08:72N- 08:73, 08:75, 08:80-08:83, 08:86N, 08:90-08:93, 08:95- 08:100, 08:104-08:106	B8, Null, -	2																8						24		27											
*08:02	B8	2																8											27								
*08:03, 08:52, 08:78	B8, -	2																8												27							
*08:04	-	2															8	11											24		27						
*08:07, 08:14, 08:74, 08:77, 08:108	B8, -	2																							24		27										
*08:09, 08:84	B8, -	2															8							24		27	30										
*08:11	-	2															8							24		27											
*08:12:01-08:12:03, 08:16	B8, -	2															8							24		27											
*08:13, 08:20, 08:70	-	2																						24													
*08:17, 08:54	-	2															8	11						24		27											
*08:21	-	2	3														8							24		27											
*08:25	-	2	3																					24													
*08:26, 08:50, 08:62, 08:85, 08:94	-																8							24		27											
*08:28, 08:37	-	2																12						24		27											
*08:32	-	2															8						18		24		27										
*08:35	-	2															8	12						24		27											
*08:36	-	2															8											27									
*08:38	-	2															8							24		27											
*08:40	-	2																						24													
*08:49	-	2																						17	20	24	27	29									
*08:55	-	2																						21	24												
*08:60, 08:76	-	2															8							24		27	29										
*08:65	-																8								23	24	27										
*08:71	-	2															8							24		27											
*08:79	-	1	2																					24													
*08:87	-	2		6													8							24		27	29										
*08:88, 08:102	-	2															8							24		27											
*08:89, 08:107	-	2																12							24		27										
*08:101	-	2															8								24		27										
*08:103	-	2															8								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	25	26	27	28	29	30	31	32				

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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“Instructions for Use” (IFU)

Lot No.: 36S

Lot-specific information

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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Lot No.: 36S**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	25	26	27	28	29	30	31	32				
*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, 13:57, 13:60- 13:61, 13:63N	B13, -, Null			3	4					10								17																			
*13:02:01-13:02:05, 13:02:07- 13:02:15, 13:08Q, 13:15, 13:18-13:19, 13:27, 13:30, 13:32-13:33, 13:37-13:38, 13:40, 13:42, 13:44-13:45, 13:47, 13:49N, 13:54- 13:56N, 13:64-13:66	B13, Null, -			3	4					10																											
*13:02:06	B13	3	4					10																	26												
*13:03	-	3	4																																		
*13:04	B15, B21	3	4							12																											
*13:06	-	3	4																17																		
*13:07N	Null	3	4					10											17																		
*13:09	-		4					10																													
*13:10	-	3	4						12																												
*13:11	-	3	4					10																													
*13:12:01, 13:13	B13, -	3	4																17																		
*13:12:02	-		4																17																		
*13:14	-	3								10																											
*13:16	-	3	4							10																											
*13:21	-	3	4																																		
*13:26	-	3	4							12								17							26												
*13:31	-	3	4							10																											
*13:34	-	3	4							10																											
*13:35, 13:59	-	3	4																																		
*13:36	-	3	4							10									17																		
*13:39	-		4							10									17																		
*13:41	-	3	4							10																											
*13:46	-	3	4					8																									30				
*13:48	-	3	4																																		
*13:51	-	3	4																17																		
*13:53	-	3	4																																		
*13:58	-									10																											
*13:62	-	3	4																																		
*13:67	-		4							10																											
*14:01:01-14:01:03, 14:12, 14:14, 14:26, 14:32	B64(14), -		4	5																					23	24											
*14:02:01-14:02:02, 14:02:04, 14:02:07, 14:03- 14:04, 14:09, 14:11, 14:15- 14:18, 14:20, 14:22, 14:25, 14:29, 14:31, 14:33	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, 14:02:08, 14:30	B65(14), -		4	6																					23												
*14:02:09, 14:05	-			6																					23	24											
*14:06:01-14:06:02	B14			6																					23	24											
*14:07N, 14:19	Null, -		4	5																					23	24											
*14:08	-			5																					23	24											
*14:10	-			5														17							23	24									31		
*14:13	-			6																					23	24											
*14:21	-		4																						24		28										
*14:23	-		4	6																					23	24											
*14:27	-		4	6																					23	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	25	26	27	28	29	30	31	32				

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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Lot No.: 36S**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	25	26	27	28	29	30	31	32		
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*15:01:02	B62(15)							7			12								19																
*15:01:04	B62(15)										12								19																
*15:01:17, 15:01:31, 15:05:01-15:05:02, 15:39:01- 15:40, 15:65, 15:84, 15:136, 15:155, 15:179, 15:195, 15:199, 15:218Q-15:219, 15:237, 15:249	B62(15), -							7			12								19																
*15:01:19, 15:28, 15:120, 15:149N, 15:246N	B62(15), -							7			12								19																
*15:02:01-15:02:06, 15:88, 15:112, 15:121, 15:139, 15:170, 15:213-15:214, 15:265	B75(15), B15, -							7			12							17	19																
*15:03:01-15:03:02, 15:03:04, 15:47:01-15:47:02, 15:49, 15:61, 15:98, 15:103, 15:123, 15:127, 15:132, 15:151, 15:158, 15:173, 15:210, 15:220, 15:235, 15:242, 15:266, 15:274	B72(70), B70, -							8			11	12							19																
*15:03:03	B72(70)							7	8		11	12							19																
*15:04	B62(15)							7			12							19																	
*15:06, 15:33, 15:78:01- 15:78:03, 15:107, 15:141	B62(15), B15, -							7			12							19																	
*15:07:01-15:07:02, 15:126	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			14							19																	
*15:10:01, 15:90, 15:99, 15:133, 15:229	B71(70), -							8			14							19																	
*15:10:02	B71(70)							7	8		14							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	25	26	27	28	29	30	31	32		



**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

Sample Information																Well No.																	
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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 "Instructions for Use" (IFU)

Lot No.: 36S

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	25	26	27	28	29	30	31	32													
*15:11:04	B75(15)												12							19																										
*15:12, 15:14, 15:19, 15:270	B76(15), -							7					12	13						19																										
*15:13:01-15:13:02	B77(15), -							7					12	14				17	19																											
*15:16:01-15:16:02, 15:67, 15:95, 15:254	B63(15), -									9			12	14						19																										
*15:16:03	-									9			12	14					19									26																		
*15:17:01:01-15:17:02, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:273	B63(15), -							7	9				14						19																											
*15:18:01-15:18:02, 15:18:04- 15:18:05, 15:51-15:52, 15:108, 15:114, 15:119, 15:134, 15:153, 15:176, 15:197-15:198, 15:200, 15:221, 15:226N, 15:238, 15:263, 15:275	B71(70), -, B70, B15, Null									8			12	14					19																											
*15:18:03	B71(70)								8			12	14						19																											
*15:20	B62(15)							7				12							17	19								26																		
*15:21, 15:44	B75(15), -							7				12	14					17	19																											
*15:23, 15:115	-								8			12	14						19																											
*15:24:01-15:24:02, 15:87, 15:157	B62(15), -							7				12	14						19																											
*15:25:01-15:25:03, 15:204, 15:240, 15:250, 15:271	B62(15), -								7			12						17	19																											
*15:29	B15								8			12							19																											
*15:30, 15:58, 15:63, 15:269	B62(15), -								7										19																											
*15:31	B75(15)								7			12							19																											
*15:36	-	w							7			12						17	19																											
*15:37	B70								8				14						19																											
*15:38:01-15:38:02	-								7			12							19																											
*15:42	-								7										19																											
*15:43, 15:256	-								7			12							19																											
*15:45	B62(15)	3							7										19																											
*15:46	B72(70)	4							7	8		12							19																											
*15:48	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																	w										
*15:62	-								8			11	12					17	19																											
*15:64:01-15:64:02	-								8			11	12						19																											
*15:66	-								7			12	14						19																											
*15:68	B35	3									11	12																																		
*15:69	-									8			11	12						19	21																									
*15:72	-									8			12	14						19																										
*15:73	B62(15)									7										19																										
*15:74	-									8			12						19																											
*15:76	-									7			12						19																								28			
*15:77	-									6	7								17	19																										
*15:80	B70									8			12	14				17	19																											
*15:83	-									7	8			12				17	19																							30				
*15:85	-									7			12					17	19																								26			
*15:86	-									7									19																											
*15:89	-	w								7			12					17	19																											
*15:91, 15:131	-									8			11	12	13					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	25	26	27	28	29	30	31	32													

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64			Well No.	
33								45	47																			63	B75(15)	*15:11:04					
					38							45	47															63	B76(15), -	*15:12, 15:14, 15:19, 15:270					
33													46																	B77(15), -	*15:13:01-15:13:02				
		35											46																63	B63(15), -	*15:16:01-15:16:02, 15:67, 15:95, 15:254				
		35											46																63	-	*15:16:03				
													46																	B63(15), -	*15:17:01-01-15:17:02, 15:162, 15:168, 15:177, 15:196, 15:208, 15:216, 15:273				
														47															63		*15:18:01-15:18:02, 15:18:04 15:18:05, 15:51-15:52, 15:108, 15:114, 15:119, 15:134, 15:153, 15:176, 15:197-15:198, 15:200, 15:221, 15:226N, 15:238, 15:263, 15:275				
															47														63	B71(70)	*15:18:03				
																47													63	B62(15)	*15:20				
33																	47													63	B75(15), -	*15:21, 15:44			
																		46												63	-	*15:23, 15:115			
																		45	46										63	B62(15), -	*15:24:01-15:24:02, 15:87, 15:157				
																			47										63	B62(15), -	*15:25:01-15:25:03, 15:204, 15:240, 15:250, 15:271				
																				47									63	B15	*15:29				
																													63	B62(15), -	*15:30, 15:58, 15:63, 15:269				
																			46										63	B75(15)	*15:31				
																				47									63	-	*15:36				
																					47								63	B70	*15:37				
																													63	-	*15:38:01-15:38:02				
																													63	-	*15:42				
																													63		*15:43, 15:256				
																													63	B62(15)	*15:45				
																													63	B72(70)	*15:46				
																													63	B62(15)	*15:48				
																													63	-	*15:53, 15:212				
																													63	-	*15:54				
33																			47										63	B15	*15:55				
																				45	47								63	-	*15:57				
																					47								63	-	*15:62				
																													63		*15:64:01-15:64:02				
																													63	-	*15:66				
																													63	B35	*15:68				
																													63	-	*15:69				
																													63	-	*15:72				
																													63	B62(15)	*15:73				
																													63	-	*15:74				
																													63	-	*15:76				
																													63	-	*15:77				
																													63	B70	*15:80				
																													63	-	*15:83				
																													63	-	*15:85				
																													63	-	*15:86				
33																			46																*15:89
																				47															*15:91, 15:131
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.		

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S

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	25	26	27	28	29	30	31	32	
*15:93	B71(70)								8			12	14							19														
*15:101	-								7			12																			28			
*15:106	-				4			7	8			12							17	19														
*15:116	-							7				12									19									25				
*15:124	-								8			12	14							19									25					
*15:128, 15:211	-								7			12								19														
*15:135	-								7			12								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														
*15:150, 15:188, 15:248	-								7											19														
*15:154, 15:165	-								7			12						17	19															
*15:156	-									8		11	12							19														
*15:161	-									8		12	13	14						19														
*15:180	-	2										12																						
*15:185	-									7		12								19														
*15:186	-									8		12	14						19	21														
*15:189	-					6	7				12	14							19															
*15:194	-								7		12							17	19									26						
*15:202, 15:239	-								7		12								18	19														
*15:207	-	3							7		12								19															
*15:222	-									9		12	14							19														
*15:223	-								7		12							17	19															
*15:224	-								7										19															
*15:230	-	1							7	9		14							19															
*15:233	-					6	7												19															
*15:236	-								7		12																							
*15:241	-	1							7		12								19															
*15:243	-									8			14						19															
*15:252	-									8			14						19															
*15:253	-									8	11								19															
*15:255	-									8	12								28															
*15:259	-									7	8	11	12						19															
*15:268	-									7	9	12	14						19															
*18:01:01-18:01:03, 18:01:05-18:01:15, 18:01:17- 18:01:18, 18:03, 18:05- 18:06, 18:08, 18:13, 18:15, 18:17N-18:18, 18:23N-18:25, 18:28, 18:30-18:32, 18:34, 18:36, 18:38, 18:42-18:43, 18:45-18:47, 18:50-18:53, 18:55, 18:57, 18:59-18:60, 18:62-18:65, 18:68, 18:70- 18:71, 18:73-18:78, 18:80- 18:89	B18, Null, -											12	15	18																				
*18:01:04, 18:20, 18:40	B18, -										12	15	18																					
*18:01:16, 18:02, 18:10- 18:11, 18:14, 18:27, 18:35, 18:39, 18:58	B18, -										12	15	18																					
*18:04	B18										12	15	18																					
*18:07:01-18:07:02	-										12	15	18																					
*18:09	B18										12	15																						
*18:12	-										12	15	18																					
*18:19	-										12	15	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	25	26	27	28	29	30	31	32	

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

101.501-48/12 – including Taq polymerase, IFU-01
 101.501-48u/12u – without Taq polymerase, IFU-02

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Lot No.: 36S

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	25	26	27	28	29	30	31	32		
*18:21	-												12		15		18																		
*18:22, 18:69	-												12		15		17	18													31				
*18:26, 18:41	-															15		18																	
*18:29	-												12				18																		
*18:33	-												12		15		18																		
*18:37	-												11	12		15																			
*18:44:01-18:44:02	-					4							12		15		18																		
*18:48	-												12		15																	26			
*18:49	-												12		15																				
*18:54	-												12	13	15																				
*18:56	-												12	13	15		18																		
*18:61	-														15		18																		
*18:66	-												12		15																				
*18:67	-												12		15																				
*18:72	-												12				18																		
*18:79	-												12		15																				
*27:01	B27					5									16														28		w				
*27:02:01-27:02:02, 27:53, 27:57, 27:65N, 27:83, 27:95	B27, -, Null					5									16														28		32				
*27:03-27:05:15, 27:05:17- 27:05:19, 27:05:21-27:06, 27:09-27:10, 27:13, 27:17, 27:20, 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- 27:88, 27:90:01-27:91, 27:93- 27:94N, 27:96-27:101, 27:103-27:105	B27, Null, -					5									16														28		32				
*27:05:16, 27:05:20, 27:21, 27:38, 27:47, 27:63, 27:70, 27:76	B27, -														16														28		32				
*27:07:01-27:07:03, 27:11, 27:32, 27:34, 27:43	B27, -														16														28		32				
*27:08, 27:26, 27:40, 27:42, 27:44, 27:89	B2708, -					5									16														28		32				
*27:12	B27					5									16																				
*27:14, 27:81	B27, -														16														24	28	32				
*27:15, 27:28, 27:71	-														16														28		32				
*27:16, 27:39, 27:59N	Null, -					5									16																				
*27:18	-					5							11			16																			
*27:19	B27														16	17													28		32				
*27:23	-					5									16																				
*27:24	-														16														28		32				
*27:25	-														16														28		32				
*27:27	-					5									16														28		32				
*27:29	B27					5							11			16																			
*27:30	B27														16	17													28		32				
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*27:41	-					5							12		16													28		32					
*27:52	-					5																							28		32				
*27:62	-															16													28		32				
*27:67	-					5																							28		32				
*27:75	-					5											16													28		32			
*27:77	-					5											16																		
*27:92	-					5											16																		
*27:102	-					5											16													28		32			
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	25	26	27	28	29	30	31	32		

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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“Instructions for Use” (IFU)

Lot No.: 36S

Lot-specific information

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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Lot No.: 36S**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	25	26	27	28	29	30	31	32						
*35:01:01:01-35:01:09, 35:01:11-35:01:37, 35:07- 35:08:04, 35:08:06, 35:11:01- 35:11:03, 35:15, 35:23, 35:29:01-35:29:02, 35:40N- 35:42:01, 35:48, 35:50, 35:52, 35:54, 35:57, 35:61:01-35:61:02, 35:77, 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, 35:132-35:134N, 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, 35:187, 35:189, 35:192, 35:194, 35:196- 35:197, 35:200, 35:202, 35:206, 35:208-35:209, 35:212, 35:216N, 35:219, 35:224-35:225, 35:227- 35:228	B35, Null, -												12					17	18																				
*35:01:10	B35												12				17	18																					
*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, 35:83-35:84, 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, 35:193, 35:195, 35:201, 35:204, 35:211, 35:214, 35:220-35:221, 35:223	B35, Null, -																17	18																					
*35:03:03	B35																17																						
*35:04:02	B35																17	18																					
*35:05:01-35:05:03, 35:51, 35:58, 35:89, 35:97	B35, -		3										12				18																						
*35:08:05	-													12			17																						
*35:09:01-35:09:03, 35:18, 35:88, 35:205	B35, -																	18																					
*35:10, 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																						
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*35:20:01-35:20:02	B35												12			17	18																						
*35:21, 35:24:01-35:24:02, 35:188, 35:190	-												12			17	18																		31				
*35:22, 35:199	-		3															18																					
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*35:26	-							6					12			17																							
*35:27, 35:203	B35, -												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	25	26	27	28	29	30	31	32						

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S

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	25	26	27	28	29	30	31	32					
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*35:31	-																		18																			
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*35:35	B35												12					17	18		21																	
*35:38	-																	17	18											29								
*35:42:02	-												12					17	18																			
*35:43:01, 35:67, 35:79, 35:86, 35:102, 35:117	B35, -												12					18																				
*35:44	B35																		18																			
*35:45, 35:71	-												12	13				17	18									29										
*35:46	B35			4									12					17									26											
*35:47, 35:217	-		4										12					17																				
*35:53N, 35:64:01-35:64:02, 35:118, 35:174	Null, -													12					18																			
*35:56	-																		17																			
*35:60	B35																		18																			
*35:63	-		4										12					17																				
*35:66	-													12					18																			
*35:72	-		3											12					18																			
*35:75, 35:127, 35:151	-																	18																				
*35:76	B35, 22													12				17	18								28		32									
*35:78, 35:82	-													12				17	18																			
*35:81, 35:96, 35:109, 35:157	-																	17	18													31						
*35:85	-																	17	18																			
*35:87	-												8						18									27										
*35:95	-																		17	18																		
*35:114	-		3											12					18																			
*35:115	-													12				17	18									29										
*35:131, 35:215	-													12				17	18																			
*35:135	-													12					18																			
*35:154	-		4																17																			
*35:163, 35:213	-																	17	18																			
*35:164	-		3															17	18																			
*35:169	-																	17	18										29									
*35:185	-													12					18																			
*35:186	-													12				17	18									28		32								
*35:191	-													12				17	18																			
*35:198	-																		17																			
*35:207	-		4											12				17										26										
*35:218	-		2												12				17	18																		
*35:222	-														12				17																			
*35:229	-														12				17	18									28		32							
*37:01:01-37:01:05, 37:01:07, 37:01:09, 37:03N, 37:13, 37:15-37:20, 37:23- 37:25, 37:27, 37:30N- 37:33N, 37:36	B37, Null, -														13				17	20																		
*37:01:06, 37:26	B37, -														13				17	20									29									
*37:01:08, 37:09	B37, -														13					20																		
*37:02	-			5										13					20																			
*37:04:01-37:04:02	B37, -													13				17	20										29		31							
*37:05	-													13				17	20										29									
*37:06	-													13				17	20										29									
*37:07	-		1												13					20																		
*37:08	B37														13				17	20										29								
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	25	26	27	28	29	30	31	32					

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

Est. No.: 333																Est. Specific Information																		
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64			Well No.
					38							47														60		63		-	*35:28, 35:226			
												44		47			51			55										-	*35:31			
												44		47			51												B35, -	*35:32:01-35:32:02, 35:37, 35:68:01-35:68:02, 35:99, 35:119				
												44		47			51												B35	*35:35				
												44		47			51												-	*35:38				
												40		44		47		51											-	*35:42:02				
												44	45		47			51										B35, -	*35:43:01, 35:67, 35:79, 35:86, 35:102, 35:117					
												44	45		47			51										B35	*35:44					
												44		47			51			54								-	*35:45, 35:71					
33																	47		51									B35	*35:46					
					37											47		51									-	*35:47, 35:217						
																	44		47									Null, -	*35:53N, 35:64:01-35:64:02, 35:118, 35:174					
																	44		47									-	*35:56					
																	44		47									B35	*35:60					
																	40		44									-	*35:63					
																			47										-	*35:66				
																			44										-	*35:72				
																			47										-	*35:75, 35:127, 35:151				
																			44										B35, 22	*35:76				
																			47										-	*35:78, 35:82				
																			48		51								-	*35:81, 35:96, 35:109, 35:157				
																			44		47								-	*35:85				
																			47		51								-	*35:87				
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																			44		47								-	*35:115				
																			47		51								-	*35:131, 35:215				
																			44	45		47							-	*35:135				
					37													47		51									-	*35:154				
																			44	45		47							-	*35:163, 35:213				
																			44		47								-	*35:164				
																			44		45		47						-	*35:169				
																			47		51								-	*35:185				
																			47		51								-	*35:186				
																			47		51								-	*35:191				
																			47		51								-	*35:198				
																			47		51								-	*35:207				
																			44		47								-	*35:218				
																			44		47								-	*35:222				
																			44		47								-	*35:229				
																			38			46										*37:01:01-37:01:05, 37:01:07, 37:01:09, 37:03N, B37, Null, - 37:13, 37:15-37:20, 37:23-37:25, 37:27, 37:30N-37:33N, 37:36		
																			38			46										B37, - *37:01:06, 37:26		
																			38			46										B37, - *37:01:08, 37:09		
																			38			46										- *37:02		
																			38			46										B37, - *37:04:01-37:04:02		
																			38			47										- *37:05		
																			38			46										- *37:06		
																			38			48										- *37:07		
																			44		46										B37 *37:08			
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		Well No.	

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S

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	25	26	27	28	29	30	31	32
*37:10, 37:22, 37:29	B37, -																	17		20									29				
*37:11, 37:37	-																	17	18	20									29				
*37:12	-							8				13									20									29			
*37:14	-																	17		20								29					
*37:21	-											13					17		20								29						
*37:28	-										11	13					17		20								29						
*37:34	-																	17		20							29						
*37:35	-											12	13				17		20								29						
*38:01:01-38:02:02, 38:02:04- 38:02:05, 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, 38:38- 38:43	B38(16), B16, Null, -					5																											
*38:02:03	-																				21	22	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												
*38:08	-					5															21	22	23										
*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								28				
*38:30	-					5		8													22	23											
*38:35	-					5														21	23												
*39:01:01:01-39:01:01:03, 39:01:03-39:01:05, 39:01:07- 39:01:08, 39:01:10-39:01:14, 39:01:16, 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, 39:41, 39:44, 39:46, 39:51- 39:57, 39:59-39:62, 39:64- 39:67, 39:70-39:71, 39:73, 39:75, 39:77, 39:79-39:81	B39(16), B3901, Low B39, -					5														21	23	24											
*39:01:06, 39:38Q, 39:40:01N-39:40:02N	B3901, Null, -					5														21	23	24											
*39:01:09, 39:12, 39:45, 39:72, 39:76, 39:78	B3901, B39(16), -																			21	23	24											
*39:01:15	-					5														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, 39:16, 39:20	B39(16), -																			21		24											
*39:10:02	-																			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											
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	25	26	27	28	29	30	31	32

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S

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	25	26	27	28	29	30	31	32	
*39:24:02	-					5																21	23											
*39:25N, 39:30, 39:34, 39:82	B39(16), Null, -					5																	23	24										
*39:32	-					5																	23	24										
*39:33, 39:47, 39:50, 39:74	-					5																	23	24										
*39:36	-					5																	23	24										
*39:39:01	-					5				11												21	24											
*39:39:02	-									11												21	24											
*39:42	-					5												17				21	23	24										
*39:43	-					5				12													23	24										
*39:48	-					5																21	23	24										
*39:58	-					5																21	24											
*39:63	-																					21	24											
*39:68	-					5																21	23	24										
*39:69	-					5																21	23	24										
*40:01:01-40:01:05, 40:01:08-40:01:10, 40:01:12-40:01:17, 40:01:19-40:01:29, 40:07, 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, 40:172, 40:186	B60(40), Null, -					4																	24	25										
*40:01:06	B60(40)					4																	24	25										
*40:01:07, 40:01:18, 40:72:01	B60(40), -					4																	24											
*40:01:11	-					4																24	25											
*40:02:01-40:02:17, 40:89, 40:94, 40:97, 40:122, 40:142N-40:144N, 40:214, 40:229	B61(40), Null, -																						26											
*40:03	B61(40)																	12						26										
*40:04, 40:06:05, 40:39	B61(40), B41, -																							26										
*40:05	B4005					3																		26										
*40:06:01:01-40:06:04, 40:06:06-40:06:07, 40:70	B61(40), -																						24	26										
*40:08	-																						26											
*40:09, 40:18, 40:24, 40:27:01-40:27:02, 40:29, 40:56-40:57, 40:78, 40:82, 40:85, 40:90-40:91, 40:104, 40:107, 40:111, 40:115, 40:119, 40:145, 40:169, 40:173, 40:176, 40:180-40:181, 40:189, 40:200, 40:202-40:203, 40:205-40:206, 40:211, 40:224, 40:226	B61(40), -																						?	?										
*40:10:01	B60(40)					4																		25										
*40:10:02, 40:135	-					4																	25	?										
*40:11:01-40:11:02, 40:64, 40:99, 40:120, 40:133Q, 40:225	B61(40), B40, -																						?	?										
*40:12	-									8		11										19			25									
*40:13	-																							26										
*40:14:01-40:14:03, 40:129, 40:192, 40:197, 40:233	B60(40), -					4																	?	?										
*40:15, 40:32	-					1		4														?	?											
*40:16	B61(40)	1				4																	24											
*40:19	-																							?										
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	25	26	27	28	29	30	31	32	

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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“Instructions for Use” (IFU)

Lot No.: 36S

Lot-specific information



101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S

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	25	26	27	28	29	30	31	32
*40:20	B61(40)												12												26								
*40:21	-																								?	25							
*40:22N, 40:33, 40:36, 40:42, 40:49, 40:54-40:55, 40:61-40:63, 40:65, 40:67, 40:81, 40:84, 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, 40:168, 40:171, 40:175, 40:179, 40:182, 40:187, 40:191, 40:193-40:196, 40:199, 40:204, 40:207, 40:212- 40:213, 40:216N-40:218, 40:221, 40:223, 40:227- 40:228, 40:234-40:236, 40:238	B60(40), Null, -																								?	25	?						
*40:23	-	1		4																					24	25							
*40:25, 40:69	-			4																					?	25	?						
*40:26	B21																								?	?	?						
*40:28	-																	17							?	?			31				
*40:30, 40:34, 40:160:01- 40:160:02	B60(40), -					4																			?	25	?						
*40:31, 40:45, 40:80	B60(40), -					4																			?	?							
*40:35	B61(40)																								?	?							
*40:37	-																								?	?							
*40:38, 40:52	-, B60(40)					4								12											?	25	?						
*40:40	-																																
*40:43	-					4																			?	25	?						
*40:44, 40:75, 40:86, 40:103, 40:127, 40:131, 40:165, 40:167, 40:190, 40:230	-																								24		?						
*40:46	-													11			16								?	25							
*40:47, 40:188	B40, -					4																			25	?							
*40:48	B60(40)					4								10											?	25	?						
*40:50	B61(40)																								?	?							
*40:51	-					4																			24	25							
*40:53, 40:72:02	B61(40), -					4																			24	?							
*40:58	-					4																			?	?							
*40:59	-					4									12										24	25							
*40:60	-					4									12										24	25							
*40:68	-																								?	?							
*40:71	-					3																			?	?							
*40:74, 40:149, 40:210	-																								?	25	?						
*40:76	-					4																			25	?							
*40:77	-					4																			24								
*40:83, 40:177	-																								24								
*40:87:01-40:87:02	-					4																			?	25	?						
*40:93	-														11			16							24								
*40:95	-																								?	?							
*40:96	-																								24	?							
*40:98	-					1																			?	?							
*40:105	-															12									?	?							
*40:106	-								4																?	25	?						
*40:109	-																									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	25	26	27	28	29	30	31	32

101.501-48/12 – including Taq polymerase, IFU-01
 101.501-48u/12u – without Taq polymerase, IFU-02

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Lot No.: 36S

Lot-specific information

33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64			Well No.
				37	38										47																B61(40)	*40:20		
					38										47															-	*40:21			
																																		*40:22N, 40:33, 40:36, 40:42, 40:49, 40:54-40:55, 40:61-40:63, 40:65, 40:67, 40:81, 40:84, 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, 40:168, 40:171, 40:175, 40:179, 40:182, 40:187, 40:191, 40:193-40:196, 40:199, 40:204, 40:207, 40:212- 40:213, 40:216N-40:218, 40:221, 40:223, 40:227- 40:228, 40:234-40:236, 40:238
				37	38										47															-	*40:23			
				37											47															-	*40:25, 40:69			
				37	38										47	49													B21	*40:26				
				37	38										47	49													-	*40:28				
				37	38										47	48													B60(40), -	*40:30, 40:34, 40:160:01- 40:160:02				
33				37	38										47	48													B60(40), -	*40:31, 40:45, 40:80				
				37	38										47														B61(40)	*40:35				
				37	38										47														-	*40:37				
				37	38										47														-, B60(40)	*40:38, 40:52				
				37	38										47														-	*40:40				
				37	38										47														-	*40:43				
				37	38										47																*40:44, 40:75, 40:86, 40:103, 40:127, 40:131, 40:165, 40:167, 40:190, 40:230			
				38											47															-	*40:46			
				38											46															B40, -	*40:47, 40:188			
				37	38										43	47														B60(40)	*40:48			
				37	38										47														B61(40)	*40:50				
				37	38										47	50													-	*40:51				
				37	38										47														B61(40), -	*40:53, 40:72:02				
				37	38										40	47													-	*40:58				
				37	38										47	48													-	*40:59				
				37	38										47														-	*40:60				
				37											47		?												-	*40:68				
				37	38										41	43	47												63	*40:71				
				37	38										47														-	*40:74, 40:149, 40:210				
				38											47														-	*40:76				
				37	38										47														-	*40:77				
				37	38										47														-	*40:83, 40:177				
				37	38										47														-	*40:87:01-40:87:02				
				38											47														-	*40:93				
35				37	38										47														-	*40:95				
				38											46														-	*40:96				
				37	38										47	48													-	*40:98				
				37	38										47														-	*40:105				
				37											47		?												-	*40:106				
34	36			38											46															-	*40:109			
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	Well No.		

101.501-48/12 – including Taq polymerase, IFU-01
 101.501-48u/12u – without Taq polymerase, IFU-02

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Lot No.: 36S

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	25	26	27	28	29	30	31	32
*40:110	-				4																			24	?								
*40:113, 40:163	-				4																			?	25	?							
*40:117	-				4																			25	?								
*40:121, 40:237	-				4																			?	?								
*40:132, 40:178	-				4																		?	25	?		29						
*40:136	-	1		4			8							14									?	?	27								
*40:137	-																						?	25									
*40:138	-																						24	25									
*40:148, 40:161	-																						24	?									
*40:157, 40:201	-																						?										
*40:158	-	1		4										12									?	?									
*40:159	-													12									24	?									
*40:162	-																						24	?									
*40:164, 40:219	-				4																		?	?									
*40:166	-				4																		?	25	?	28							
*40:170	-																						?	25									
*40:174	-		3																				?	?									
*40:183, 40:198	-	1		4																			?	25	?								
*40:184	-																		21			?	?										
*40:185	-																		18			?	25										
*40:208	-			4																		?	25	?									
*40:209	-																		18			?											
*40:215	-			4																		?	25										
*40:220	-																					?	?										
*40:222	-			4										12								?	25	?									
*40:231	-	1		4			8							14								?	25	?	27		29						
*40:232	-																					?	?										
*41:01, 41:06-41:07, 41:12, 41:14, 41:16-41:17, 41:20- 41:22, 41:25	B41,-			4			8															24		27		30							
*41:02:01-41:02:05, 41:11, 41:13, 41:23	B41,-			4			8															24		27									
*41:03:01-41:03:02, 41:15	B41,-			4			8															24		27									
*41:04, 41:10, 41:18	-			4																		24		27									
*41:05	-			4			8															24		27		30							
*41:08	-	1		4			8							14								24		27									
*41:09	-			4			8															24			30								
*41:19	-			4			8															24		27									
*41:24	-			4			8							12								24		27									
*41:26	-			4			8															24		27		30							
*41:27	-			4			8															24		27									
*42:01:01-42:02, 42:12, 42:18	B42,-						8															24		27	28								
*42:04	-						8															24		27	28	30							
*42:05:01-42:05:02	-	1					8							14								24		27	28								
*42:06	-						8															24		27	28								
*42:07	-						8															24		27									
*42:08	-						8															24		27	28								
*42:09	-													12								24		27	28								
*42:10, 42:17	-						8															24		27	28								
*42:11	-						8		11													24		27									
*42:13	-						8															24		27	28	29							
*42:14	-						8															24		27	28								
*42:15	-						8															24		27	28								
*42:16	-																					24		27	28								
*42:19	-																					24			28								
*42:20	-																					24		27	28								
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	25	26	27	28	29	30	31	32

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

**101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02**

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Lot No.: 36S**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	25	26	27	28	29	30	31	32	
*44:02:01:01-44:02:21, 44:02:23-44:02:29, 44:11, 44:19N, 44:21-44:23N, 44:27:01-44:27:02, 44:33- 44:34:02, 44:48, 44:52N, 44:55, 44:59:01-44:59:02, 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, 44:126:01- 44:126:02, 44:137, 44:142Q, 44:148-44:149N, 44:151- 44:152, 44:162, 44:168, 44:170, 44:172-44:173	B44(12), Null, -																																	
*44:02:22, 44:12, 44:171N	B44(12), Null, -																																	
*44:03:01-44:03:06, 44:03:08- 44:03:15, 44:03:18, 44:04- 44:05:04, 44:13, 44:26, 44:28:01-44:30, 44:32, 44:35- 44:36, 44:38-44:39, 44:42, 44:56N, 44:58N, 44:61N, 44:69-44:70, 44:76, 44:78- 44:79, 44:85, 44:88, 44:92, 44:94, 44:96, 44:98, 44:105, 44:108N-44:109, 44:114- 44:115, 44:117, 44:120, 44:122, 44:124-44:125, 44:128, 44:133, 44:136, 44:139, 44:141, 44:143, 44:147, 44:153-44:155, 44:157, 44:159-44:161, 44:163-44:165, 44:167, 44:174-44:175	B44(12), B21, Null, -																																	
*44:03:07, 44:03:16, 44:03:19, 44:07, 44:81, 44:103, 44:111	B44(12), -																																	
*44:03:17	-																																	
*44:06	B44(12)																																	
*44:08	B44(12)																																	
*44:09	B45(12)																																	
*44:10	B44(12)																																	
*44:14	B44(12)																																	
*44:15	B12																																	
*44:16, 44:91, 44:132	B47, -																																	
*44:17, 44:43:01-44:43:02	B44(12), -																																	
*44:18	-																																	
*44:20, 44:100	-																																	
*44:24	-																																	
*44:25, 44:50	-																																	
*44:31	B44(12)																																	
*44:37:01-44:37:02, 44:64:01- 44:64:02	-																																	
*44:40, 44:130	B44(12), -																																	
*44:41:01-44:41:02, 44:53, 44:99, 44:138Q	B44(12), -																																	
*44:44	-																																	
*44:45, 44:51, 44:77, 44:82, 44:107, 44:123	-																																	
*44:46, 44:129	-																																	
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	25	26	27	28	29	30	31	32	

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information



101.501-48/12 – including Taq polymerase, IFU-01
 101.501-48u/12u – without Taq polymerase, IFU-02

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 "Instructions for Use" (IFU)

Lot No.: 36S

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	25	26	27	28	29	30	31	32
*44:47, 44:65	-				4																									29			
*44:49	-			2	4													17												29			
*44:54	B44(12)			3	4																									29			
*44:57	-			w														17												29			
*44:60, 44:110	-			3	4				8									17											29				
*44:62	-				4													17												29			
*44:75	-				4													17												29			
*44:83	-																	17												29			
*44:90	-				4													17												28	29	32	
*44:95	-				4													17												29			
*44:97	-				4													17												28	29	32	
*44:106	-			3	4																									29			
*44:127	-				4													17												29			
*44:131	-																	17												29			
*44:134	-																	17												29			
*44:135	-			3	4																												
*44:140	-				4													11												29			
*44:144	-				4													12	13										29				
*44:145	-																														29		
*44:146	-					4																									29		
*44:150	-		1		4		6																										
*44:156	-		2															11													29		
*44:158	-			3	4																												
*44:166	-				4		8																							27			
*44:169	-				4														17											25	29		
*45:01, 45:05, 45:07, 45:11-45:13	B45(12), -					4			8			11																		24		30	
*45:02-45:03	-					4		8																						24		30	
*45:04	-					4		8																						24		30	
*45:06	-					4		8		11																			24	28	30		
*45:08	-					4		8																						24		30	
*45:09	-					4		8				12	13																24		30		
*45:10	-					4		8		10																			24		30		
*45:14	-					4		8		11																			24		30		
*46:01:01-46:01:05, 46:01:08-46:01:09, 46:04-46:05, 46:07N, 46:09-46:10, 46:14-46:16, 46:20, 46:22-46:24, 46:26-46:31, 46:34-46:38	B46, Null, -							7				12																		28	31		
*46:01:06	-							7			12																			28		31	
*46:01:07	-							7			12																		26	28	31		
*46:02	B46							7			12																		w	31			
*46:03, 46:08, 46:13:01-46:13:03, 46:19, 46:21:01-46:21:02, 46:25	B46, -							7			12																		28	31			
*46:06	-							7			12																		25	28	31		
*46:11	-							7																						28		31	
*46:12	-		3					7			12																		28		31		
*46:17	-							7			12	13																	28		31		
*46:18	-							7																					28		31		
*46:32	-							7			12																		28		31		
*46:33	-							7			12							17										26	28	31			
*47:01:01-01:47:01:02, 47:06-47:08	B47, -				4																									26		32	
*47:02	B47				4																									26		32	
*47:03	B47				4																									26		32	
*47:04-47:05	-				4	5																								26			
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	25	26	27	28	29	30	31	32

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

Lot No.: 333												Lot Specific Information																Well No.									
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64						
					38							46					54												-		*44:47, 44:65						
					38 39							46					54											-		*44:49							
					38							46					54										B44(12)		*44:54								
					38							46					54										-		*44:57								
					38							46					54										-		*44:60, 44:110								
					38							46		49			54			59			63				-		*44:62								
					37 38							47					54						61				-		*44:75								
					38 39							46					54					60				-		*44:83									
					37 38 39							47					54	56	58							-		*44:90									
34	36				38 39							46					54									-		*44:95									
					38 39							46					54						61			-		*44:97									
					38 39							46					54									-		*44:106									
					38 39											54										-		*44:127									
					37 38 39							47					54									-		*44:131									
					38							46					54						60			-		*44:134									
					38							46					54						63			-		*44:135									
					38	41						46					54								-			*44:140									
					38							46					54									-			*44:144								
					38 39							46					54								-			*44:145									
					38							45 46					54								-			*44:146									
					38							46	48				54								-			*44:150									
					38							46					54								-			*44:156									
					38							46					54								-			*44:158									
					38							46	48				54								-			*44:166									
					38 39							46					54								-			*44:169									
					37 38	41						47					54																				
					37 38							47					54																				
					37 38	41						47																									
					37 38	41						47						54	56	58																	
					37 38	40						47																									
					37 38							47						54						63													
					37 38							47																									
					37 38	41						47						54						63													

**101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02**

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“Instructions for Use” (IFU)

Lot No.: 36S**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	25	26	27	28	29	30	31	32		
*48:01:01-48:01:04, 48:07, 48:09, 48:11, 48:19-48:20, 48:22, 48:27, 48:30	B48, -											11													24										
*48:02:01-48:02:03, 48:25	B48, -										11	12						17							24										
*48:03:01-48:03:02	B48											11													24	25									
*48:04, 48:24	B48, -											11													24										
*48:05, 48:08	B48, -	1										11													24										
*48:06	-																									24									
*48:10	B48											11													24										
*48:12	-											11													24										
*48:13	-											11													24										
*48:14	-											11	12												24										
*48:15	-	1										11													24										
*48:16	-											11													24										
*48:17	B48, 40											11													24	25									
*48:18	-											11																							
*48:21, 48:26	-					5						11													24										
*48:23	-											11	12												24	25									
*48:28	-											11			15										24										
*48:29	-											11													24										
*49:01:01, 49:01:03- 49:01:04, 49:06, 49:08- 49:10, 49:12-49:17, 49:19N, 49:22-49:24	B49(21), Null, -			4																															
*49:01:02, 49:11	B49(21), -		4																																
*49:02	B49(21)		4																																
*49:03	-																																		
*49:04	-		4									12																							
*49:05	B49(21)		4									12																							
*49:07	-		4					10																											
*49:18	-		4																																
*49:20	-		4									11																							
*49:21	-		4																																
*49:25	-	2																								16		22	23						
*49:26	-																																		
*50:01:01-50:01:03, 50:04- 50:05, 50:08, 50:10-50:11, 50:13, 50:16, 50:18-50:19, 50:32	B50(21), -			4																						24									
*50:02	B45(12)			4								11													24										
*50:06	-		4																							24									
*50:07	-																									24									
*50:09, 50:20	-		4																							24									
*50:12	-		4																							24									
*50:14	-		4																							24									
*50:15	-		4																							24									
*50:17	-		4																						17		24								
*50:31	-		4									10														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	25	26	27	28	29	30	31	32		

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

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	25	26	27	28	29	30	31	32	
*51:01:01, 51:01:03, 51:01:05-51:01:07, 51:01:10- 51:01:14, 51:01:16-51:01:20, 51:01:22-51:01:24, 51:01:26- 51:01:39, 51:01:41-51:02:01, 51:02:03, 51:02:05-51:03, 51:09:01, 51:11N-51:12, 51:16, 51:19, 51:21, 51:23, 51:26-51:33, 51:38, 51:40- 51:41N, 51:43, 51:48-51:49, 51:51-51:53, 51:55, 51:57- 51:58, 51:60, 51:65-51:67, 51:69-51:77, 51:79-51:80, 51:82-51:84, 51:86-51:88, 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- 51:127, 51:129-51:130, 51:133-51:134, 51:136- 51:138, 51:140, 51:142, 51:145-51:146, 51:149N- 51:152	B51(5), B5102, B5103, Null, -																														30			
*51:01:02, 51:02:02, 51:05, 51:09:02, 51:89, 51:103, 51:116, 51:119, 51:132	B51(5), B5102, -																																	
*51:01:04, 51:02:04, 51:34- 51:35, 51:99, 51:131, 51:143	B51(5), B5102, -																														30			
*51:01:08, 51:01:15, 51:13:02-51:14, 51:50, 51:90	B51(5), -																														30			
*51:01:09	B51(5)																														24			
*51:01:21, 51:01:25	-																														24			
*51:01:40, 51:54, 51:78:01- 51:78:02	-																																	
*51:04, 51:46, 51:56:01- 51:56:02, 51:139	B51(5), -																														17	30 31		
*51:06:01-51:06:02	B51(5), -																																30	
*51:07:01	B51(5)																																30	
*51:07:02	-																																	
*51:08, 51:44N, 51:141	B51(5), Null, -																														8	30		
*51:10	-																															24	30	
*51:13:01, 51:92	-																																30	
*51:15	-																																	
*51:17-51:18	B51(5)																																30	
*51:20	-																														8	30		
*51:22, 51:128	-																																30	
*51:24:01	B51(5)																																30	
*51:24:02	B51(5)																															24	30	
*51:24:03-51:24:04	B51(5), -																															8	24 30	
*51:36	-																																12	30
*51:37, 51:63	-																																30	
*51:39	-																																	30
*51:42	B44(12)																															17	29 30	
*51:45	-																															12	30	
*51:59	-																																	30
*51:61:01-51:61:02	-																																	30
*51:62	-																																	30
*51:64	-																														3		30	
*51:68	-																														2		30	

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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

Lot No.: 36S

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	25	26	27	28	29	30	31	32
*51:81	-																												30				
*51:85	-																												30				
*51:93, 51:144	-																																
*51:97	-									8		12																	30				
*51:101	-																						21						30				
*51:104, 51:118N, 51:147	Null, -																												30				
*51:106	-																												30				
*51:112	-																												30				
*51:135	-																												30				
*51:148	-			3																													
*52:01:01-52:01:01:02, 52:01:03, 52:01:06-52:01:08, 52:01:11-52:01:12, 52:01:14, 52:01:16-52:01:17, 52:04- 52:05, 52:07-52:08, 52:10:01- 52:11, 52:13, 52:15, 52:17, 52:24, 52:27-52:31	B52(5), -																																
*52:01:02, 52:01:04, 52:01:09, 52:03, 52:09	B52(5), -																												30				
*52:01:05, 52:01:15	B52(5), -																																
*52:01:10	-																						22										
*52:01:13, 52:22-52:23	-																																
*52:02	-																												30				
*52:06:01-52:06:02	-																												30				
*52:12	-																																
*52:14	-																																
*52:16	-														11																		
*52:18	-																																
*52:19	-									8																			30				
*52:20	-																																
*52:21	-																												30				
*52:25	-																																
*52:26	-								6																								
*53:01:01-53:01:08, 53:05, 53:08:01-53:08:02, 53:10, 53:16, 53:18, 53:20-53:21, 53:23-53:27, 53:29	B53, -														12				17														
*53:02	-														12			17											31				
*53:03, 53:11-53:13	B53, -														12			17															
*53:04	-																	17															
*53:06	-														12			17										30	31				
*53:07	B53																	17															
*53:09	-														12			17															
*53:14	-			3											12																		
*53:15	-														12			17															
*53:17:01-53:17:02	-														12			17															
*53:19	-																	17															
*53:22	-														12	13		17										29					
*53:28	-														12			17											31				
*53:30	-			4											12			17															
*54:01:01, 54:01:03- 54:01:04, 54:07-54:08N, 54:10, 54:13, 54:16-54:19, 54:21-54:25, 54:27-54:28	B54(22), Null, -																												28		32		
*54:01:02	-																												28		32		
*54:02, 54:05N	B54(22), Null																												28		32		
*54:03	-																												28		32		
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	25	26	27	28	29	30	31	32

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information



101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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 "Instructions for Use" (IFU)

Lot No.: 36S

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	25	26	27	28	29	30	31	32
*54:04	-																											28		32			
*54:06	-																											28		32			
*54:09, 54:14	-																											28		32			
*54:11	B54(22)																											24	28		32		
*54:12	-																											28		32			
*54:15	-																											28		32			
*54:20	-																											28		32			
*54:26	-																	10										28		32			
*55:01:01-55:01:06, 55:01:08																																	
55:01:10, 55:03, 55:05, 55:11, 55:15, 55:25, 55:29, 55:31, 55:33, 55:36, 55:38, 55:44-55:45, 55:52-55:55N	B55(22), B22, Null, -																												28		32		
*55:01:07, 55:02:01- 55:02:06, 55:10, 55:12, 55:16, 55:19, 55:26, 55:30, 55:37, 55:39, 55:42-55:43, 55:47-55:48, 55:50, 55:57	B55(22), B22, -																												28		32		
*55:04, 55:49	B55(22), -																												28		32		
*55:07, 55:35	B54(22), -																												28		32		
*55:08	B56(22)																												28		32		
*55:09, 55:24	B22, -																	10										28		32			
*55:13	-																												28		32		
*55:14	-																	12			17							28		32			
*55:17, 55:28	-																												28		32		
*55:18	-																	11															
*55:20	-																	8											27	28	30	32	
*55:21	-																												28		32		
*55:22	B55(22)																	10											28		32		
*55:23, 55:32, 56:18, 56:32 ⁴	-																		12										28		32		
*55:27, 55:46	-																												28		32		
*55:34	-																												28		32		
*55:40	-																												28		32		
*55:41	-																												28		32		
*55:51	-																	3											28		32		
*55:56	-																	8											28	30	32		
*55:58	-																												28		32		
*56:01:01-56:01:03, 56:08, 56:14, 56:16, 56:24, 56:26- 56:30, 56:34-56:36, 56:38N	B56(22), Null, -																												28		32		
*56:01:04, 56:20:01	-, B56(22)																												28		32		
*56:01:05, 56:15, 56:19N	B56(22), Null																												28		32		
*56:02, 56:04	B56(22)																												28		32		
*56:03	B22																		12										28		32		
*56:05:01	B56(22)																												28		32		
*56:05:02	B56(22)																												28		32		
*56:06	B78																			18									28		32		
*56:07	B56(22)																												28		32		
*56:09	-																		12			17							28		32		
*56:10	B55(22)																												28		32		
*56:11	B56(22)																				17								28		32		
*56:12	B55(22)																				17								28		32		
*56:13	B56(22)																		8										28	30	32		
*56:17, 56:33	-																																
*56:20:02	-																												24	28		32	
*56:21	-																												28		32		
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	25	26	27	28	29	30	31	32

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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“Instructions for Use” (IFU)

Lot No.: 36S

Lot-specific information



101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S

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	25	26	27	28	29	30	31	32	
*56:22	-																											28		32				
*56:23	-																																	
*56:25, 56:37	-																											28		32				
*56:31	-																	12									28		32					
*56:39	-																											28		32				
*57:01:01-57:01:04, 57:01:06-57:01:14, 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, 57:43-57:44, 57:48-57:50, 57:52-57:56, 57:58, 57:60-57:61, 57:64	B57(17), -																	12																
*57:01:05, 57:13, 57:31, 57:47	B57(17), -																	12																
*57:02:01-57:03:02, 57:17, 57:39, 57:42, 57:46, 57:57, 57:63	B57(17), -																				17													
*57:04	B57(17)								6												17													
*57:05	-																				17								26					
*57:07	-																				17									29				
*57:09	-									8											17									29				
*57:11, 57:21	-																	12																
*57:12	-																				17													
*57:14	-																	12			17									31				
*57:24	-																	12			17									29				
*57:28N	Null																				17													
*57:32	-																				17													
*57:41	-																	12			17													
*57:45, 57:51	-								4									12			17													
*57:59	-																	12			17								25					
*57:62	-																	12			17													
*58:01:01-58:01:02, 58:01:04-58:01:12, 58:04-58:05, 58:10N-58:15, 58:19, 58:21-58:24, 58:29, 58:31N-58:33, 58:35, 58:37, 58:39N-58:40, 58:42	B58(17), Null, -																		12			17												
*58:01:03	B58(17)																	12																
*58:02, 58:06, 58:16, 58:25-58:26, 58:38	B58(17), -																	12																
*58:07	-																	12	13															
*58:08:01	B17																													30				
*58:08:02	-																																	
*58:09	-																	12			17										31			
*58:17N	Null																	12			17													
*58:18	-								3									12																
*58:20	-																											21						
*58:27	-																																	
*58:28	-																			17														
*58:34	-																			17														
*58:36	-																	12			17								26					
*59:01:01-59:01:02, 59:05	B59, -																																	
*59:02	B59																																	
*59:03	-																																	
*59:04	-																																	
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	25	26	27	28	29	30	31	32	

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S

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	25	26	27	28	29	30	31	32		
*67:01:01	B67					5																21	24			28									
*67:01:02-67:01:03	B67, -																					21	24			28									
*67:02	-																					21	24			28									
*67:03	-					5																21	24			28									
*73:01-73:02	B73, -																						24			28									
*78:01:01-78:01:02, 78:07	B78, -																		18																
*78:02:01, 78:04	B78, -																		18																
*78:02:02	B78																		18																
*78:03	-																		18																
*78:05	-																		18																
*78:06	-																																		
*81:01	B81																										28			32					
*81:02	B81																						24			28									
*81:03-81:06	Null, -,																										28								
*82:01, 82:03	B82, -									8		11							19									28			32				
*82:02	-									8		11							19									28			32				
*83:01	-																	17									28	29		32					
A*23:31, A*24:106, C*07:231, C*16:10										6																									
A*24:02:37																																			
A*24:146																		13																	
A*24:174																																			
A*26:68, A*68:56, C*02:56, C*06:20, C*12:50										4																									
C*01:30, C*12:87											7																								
C*01:73												1																							
C*02:06, 02:47																																			
C*02:23, C*04:77																																			
C*02:60																																			
C*03:05, C*03:25, C*03:27, C*03:143, C*03:167										3																									
C*03:19																																			
C*03:102																			17																
C*03:129, C*17:16																																			
C*03:179																				19															
C*05:30																							20												
C*06:72																																			
C*07:02:30, C*08:16:02																		7																	
C*07:46																		8																	
C*07:302																																			
C*08:51																																			
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	25	26	27	28	29	30	31	32		

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 low resolution typing.

In addition, wells number 4 to 6, 10, 17, 20, 21, 28, 30, 31, 35, 42, 48, 50, 60 and 61 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

²The 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*15:01 allele has been renamed B*15:120

The B*1501 allele has been corrected and renamed B*1522.

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



101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S**Lot-specific information**

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 sequence of the B*5830 allele has been shown to be identical to B*58:01.

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

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

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.

⁴The B*55:23 and 55:32 and the B*56:18 and 56:32 alleles give rise to identical amplification patterns with the HLA-B low resolution primer set. These alleles can be separated by the respective high resolution primer sets.

⁵Primer mix 64 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.

⁶Primer mix 4 amplifies the B*15:143, 35:19, 40:170, 44:07 and 50:07 alleles, and primer mix 26 amplifies the B*37:06:01 allele in addition to the alleles specified in the tables.

‘ser’, serological HLA specificity.

‘w’, might be weakly amplified.

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

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S

Lot-specific information

Primers

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
Length of spec. PCR product(s)	110	215	140	130	185	190	290	165	390	180	105	280
Length of int. pos. control ¹			235	265	235			220			195	
								330				
5'-primer(s) ²	527	97	209	103	103	103	45	45	45	420	206	419
	5' -TgA 3'	5' -TCg 3'	5' -ggC 3'	5' -CCg 3'	5' -CCT 3'	5' -CCg 3'	5' -ggA 3'	5' -ggA 3'	5' -gga 3'	5' -TTA 3'	5' -AgA 3'	5' -gTC 3'
	540		363	103	103	418		357			420	
	5' -gAC 3'		5' -AgC 3'	5' -CCg 3'	5' -CCT 3'	5' -Agg 3'		5' -Tgg 3'		5' -TTA 3'		
			363	361	363			412				
			5' -AgC 3'	5' -AgT 3'	5' -AAT 3'			5' -ATA 3'				
3'-primer(s) ³	605	272	309	193	246	246	165	206	266	559	272	3 rd I
	5' -gCT 3'	5' -Tgg 3'	5' -gTg 3'	5' -CgT 3'	5' -TAT 3'	5' -TAT 3'	5' -Tgg 3'	5' -CCT 3'	5' -TCC 3'	5' -CTC 3'	5' -Tgg 3'	5' -TAT 3'
	272		559	193	246	572		538			572	
	5' -TgA 3'	5' -CAg 3'	5' -CgT 3'	5' -TAT 3'	5' -gCC 3'			5' -gTC 3'		5' -gCg 3'		
			583	559								
			5' -gTg 3'	5' -CTC 3'								
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec. PCR product(s)	195	105	115	80	150	135	60	210	170	110	395	160
		395	150				245					425
		435					400					
Length of int. pos. control ¹	1070	1070	1070	1070	800	1070	1070	800	800	1070	1070	1070
5'-primer(s) ²	142	45	161	167	355	206	45	142	409	246	44	44
	5' -TCT 3'	5' -ggA 3'	5' -Cgg 3'	5' -gCT 3'	5' -TCA 3'	5' -gAC 3'	5' -ggA 3'	5' -TCT 3'	5' -ggC 3'	5' -gAA 3'	5' -ggC 3'	5' -ggC 3'
	419	540						368	368	420		357
	5' -gTC 3'	5' -gAC 3'					5' -gTT 3'	5' -gTC 3'	5' -TTA 3'		5' -Tgg 3'	
								557				
								5' -ggA 3'				
3'-primer(s) ³	301	272	234	204	463	302	259	311	544	317	272	302
	5' -gTC 3'	5' -TgC 3'	5' -TCT 3'	5' -TCT 3'	5' -gCT 3'	5' -ggC 3'	5' -gTT 3'	5' -ggg 3'	5' -ggT 3'	5' -ggA 3'	5' -TgC 3'	5' -ggC 3'
	301	309	272					259	311			302
	5' -gTC 3'	5' -ATC 3'	5' -TgA 3'					5' -gTT 3'	5' -ggg 3'			5' -ggT 3'
	570	605	272					266	538			477
	5' -CCg 3'	5' -gCT 3'	5' -Tgg 3'					5' -TCC 3'	5' -gTC 3'			5' -gCg 3'
	572							272				
	5' -gCg 3'							5' -Tgg 3'				
								292				
								5' -gTA 3'				
								572				
								5' -gCg 3'				
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S

Lot-specific information

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
Length of spec. PCR product(s)	180	290	105	325	115	215	130	90	90	145	120	430
		465			160		270	410	175	430	210	
					195							
					225							
					260							
Length of int. pos. control ¹	1070	1070	1070	800	1070	800	800	1070	1070	1070	800	1070
5'-primer(s) ²	355	72	540	1 st I	355	141	209	41	209	48	357	49
	5' -TCA 3'	5' -gCT 3'	5' -gAC 3'	5' -CAg 3'	5' -TCA 3'	5' -ATT 3'	5' -ggC 3'	5' -CTg 3'	5' -ggC 3'	5' -gCC 3'	5' -Tgg 3'	5' -CAg 3'
	363	209			418	357	209	368	363	206		
	5' -Agg 3'	5' -ggC 3'			5' -Agg 3'	5' -Tgg 3'	5' -ggg 3'	5' -gTT 3'	5' -AgC 3'	5' -gAA 3'		
					499		355					
					5' -TCT 3'		5' -TCA 3'					
3'-primer(s) ³	499	193	603	282	538	309	299	282	259	309	435	309
	5' -ggA 3'	5' -CgT 3'	5' -gTg 3'	5' -gCC 3'	5' -gTC 3'	5' -ATC 3'	5' -TCA 3'	5' -gCC 3'	5' -gTT 3'	5' -ATC 3'	5' -TCT 3'	5' -ATC 3'
	193	605			572	538	583	418	499		527	
	5' -TgT 3'	5' -gCT 3'			5' -gCg 3'	5' -gTC 3'	5' -gTg 3'	5' -gTC 3'	5' -ggA 3'		5' -CCT 3'	
	387											
	5' -TCg 3'											
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
Length of spec. PCR product(s)	145	300	160	180	180	90	90	95	115	360	350	285
			330	210		240			150			
Length of int. pos. control ¹	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	800
5'-primer(s) ²	206	1 st I	15	141	420	209	208	206	165	1 st I	1 st I	355
	5' -gAA 3'	5' -CAg 3'	5' -gCA 3'	5' -ATT 3'	5' -TTA 3'	5' -ggC 3'	5' -CgT 3'	5' -gAC 3'	5' -ACC 3'	5' -CAg 3'	5' -CAg 3'	5' -TCA 3'
					418	420	209	209		463		363
					5' -Agg 3'	5' -TTA 3'	5' -ggA 3'	5' -ggA 3'		5' -TgA 3'		5' -AgC 3'
							362	369				
							5' -ggT 3'	5' -TAC 3'				
3'-primer(s) ³	311	259	175	311	559	256	256	259	272	317	311	603
	5' -ggT 3'	5' -CTC 3'	5' -CCg 3'	5' -ggT 3'	5' -CAg 3'	5' -CCC 3'	5' -CTC 3'	5' -gTT 3'	5' -TgC 3'	5' -ggA 3'	5' -ggT 3'	5' -gTg 3'
					259	538	559		538			605
					5' -CTC 3'	5' -gTC 3'	5' -CgT 3'		5' -CCA 3'			5' -gCT 3'
							559	420				
							5' -CgT 3'	5' -gCT 3'				
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

101.501-48/12 – including Taq polymerase, IFU-01
101.501-48u/12u – without Taq polymerase, IFU-02

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Lot No.: 36S**Lot-specific information**

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
	165	260	390	380	160	125	235	550	640	90	455	105
	190					150				125		
						260				155		
						630				190		
Length of int. pos. control ¹	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	800
5'-primer(s) ²	435	363	49	317	106	206	363	272	206	141	256	206
	5' -AAA 3'	5' -Agg 3'	5' -CAG 3'	5' -gCT 3'	5' -CCA 3'	5' -gAA 3'	5' -AgC 3'	5' -CTA 3'	5' -AgA 3'	5' -ATT 3'	5' -ACG 3'	5' -gAC 3'
						234	363			206	272	
						5' -CAA 3'	5' -AgC 3'			5' -gAA 3'	5' -CTC 3'	
						355						
						5' -TCA 3'						
3'-primer(s) ³	559	583	272	412	226	317	559	538	559	256	435	272
	5' -CAG 3'	5' -gTg 3'	5' -TgA 3'	5' -gTT 3'	5' -CAC 3'	5' -ggA 3'	5' -CTC 3'	5' -gTC 3'	5' -CgT 3'	5' -CCC 3'	5' -TCT 3'	5' -Tgg 3'
	583					572				292		
	5' -gTg 3'					5' -gCg 3'				5' -gTC 3'		
						572						
						5' -gTg 3'						
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63
Length of spec. PCR product(s)	90	435	95
	120		
	150		
	180		
Length of int. pos. control ¹	800	1070	1070
5'-primer(s) ²	165	272	407
	5' -ACC 3'	5' -CTA 3'	5' -gg 3'
	222		409
	5' -CCA 3'		5' -ggC 3'
		409	
		5' -ggC 3'	
3'-primer(s) ³	272	419	463
	5' -TgC 3'	5' -CgA 3'	5' -gCT 3'
	302		
	5' -ggT 3'		
Well No.	61	62	63

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 low resolution typing.

In addition, wells number 4 to 6, 10, 17, 20, 21, 30, 31, 35, 42, 48, 50, 60 and 61 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S**Lot-specific information**

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](http://imgt.hc.cnr.it), [hla](http://hla.sanger.ac.uk) 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](http://imgt.hc.cnr.it), [hla](http://hla.sanger.ac.uk) web site. The sequence of the 3 terminal nucleotides of the primer is given.

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S

Lot-specific information

			Prod. No.:	Well															
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
IHWG 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	+	+	-	-	-	-	-	-	-	-	-	+	-	-	-

**101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02**

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Lot No.: 36S

Lot-specific information

CELL LINE VALIDATION SHEET

HLA-B low resolution SSP kit

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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Lot No.: 36S

Lot-specific information

CELL LINE VALIDATION SHEET																
HLA-B low resolution SSP kit																
	Prod. No.:	Well														
		49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
		201318749	201318750	201318751	201318752	201318753	201318754	201318755	201318756	201318757	201318758	201318759	201318760	201318761	201318762	201318763
	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	-	-	+	-	-	+	-	-	-	-	-	+

101.501-48/12 – including *Taq* polymerase, IFU-01
 101.501-48u/12u – without *Taq* polymerase, IFU-02

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

Lot No.: 36S

Lot-specific information

CERTIFICATE OF ANALYSIS**Olerup SSP® HLA-B low resolution SSP**

Product number: 101.501-48/12 – including *Taq* pol.
 101.501-48u/12u – without *Taq* pol.

Lot number: 36S

Expiry date: 2016-January-01

Number of tests: 48 tests – Product No. 101.501-48/48u
 12 tests – Product No. 101.501-12/12u

Number of wells per test: 63 + 1

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2013-187-01	25	2013-187-25	49	2013-187-49
2	2013-187-02	26	2013-187-26	50	2013-187-50
3	2013-187-03	27	2013-187-27	51	2013-187-51
4	2013-187-04	28	2013-187-28	52	2013-187-52
5	2013-187-05	29	2013-187-29	53	2013-187-53
6	2012-208-06	30	2013-187-30	54	2013-187-54
7	2013-187-07	31	2013-187-31	55	2013-187-55
8	2013-187-08	32	2013-187-32	56	2013-187-56
9	2013-187-09	33	2013-187-33	57	2013-187-57
10	2013-187-10	34	2013-187-34	58	2013-187-58
11	2013-187-11	35	2013-187-35	59	2013-187-59
12	2013-187-12	36	2013-187-36	60	2013-187-60
13	2013-187-13	37	2013-187-37	61	2013-187-61
14	2013-187-14	38	2013-187-38	62	2013-187-62
15	2013-187-15	39	2013-187-39	63	2013-187-63
16	2013-187-16	40	2013-187-40		
17	2013-187-17	41	2013-187-41		
18	2013-187-18	42	2013-187-42		
19	2013-187-19	43	2012-148-43		
20	2013-187-20	44	2013-187-44		
21	2013-187-21	45	2013-187-45		
22	2012-208-22	46	2013-187-46		
23	2012-208-23	47	2013-187-47		
24	2012-208-24	48	2013-187-48		

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

Additional 3'-primers in primer solutions 2, 3, 6, 13 to 15, 19, 29, 31, 35, 40 and 58 were tested by separately adding additional 5'-primers.

Additional 5'-primers in primer solutions 1, 3, 6, 14, 19, 21, 25, 29, 31, 40, 48, 54, 58, 59 and 61 were tested by separately adding additional 3'-primers.

In primer solutions 31, 42, 43 and 63 one 5'-primer was not possible to test and in primer solutions 38, 42, 54 and 61 one 3'-primer was not possible to test.

101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 36S

Lot-specific information

The negative control primer pairs, **Production No. 2013-165-01**, can detect contamination with PCR products diluted 10⁻⁷.

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

Date of approval: 2013-July-19

Approved by:

Production Quality Control

101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02

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“Instructions for Use” (IFU)

Lot No.: 36S

Lot-specific information

Declaration of Conformity

Product name: Olerup SSP® HLA-B low resolution

Product number: 101.501-48/48u, -12/12u

Lot number: 36S

Intended use: HLA-B low resolution 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 13485:2012, 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

Daniel Malica
Head of QA and Regulatory Affairs

101.501-48/12 – including *Taq* polymerase, IFU-01
101.501-48u/12u – without *Taq* polymerase, IFU-02

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

Lot No.: 36S

Lot-specific information

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