

Lot No.: **88E**

Lot-specific Information

***Olerup* SSP[®] HLA-B*35**

Product number: 101.522-24u/03u – without *Taq* pol.
Lot number: 88E
Expiry date: 2010-August-01
Number of tests: 24 tests – Product No. 101.522-24u
3 tests – Product No. 101.522-03u
Number of wells per test: 48
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. 88E.

CHANGES COMPARED TO THE PREVIOUS *OLERUP* SSP[®] HLA-B*35 LOT

The HLA-B*35 low resolution specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup* SSP[®] HLA-B*35 lot was made (**Lot No. X97**).

The primers of the wells detailed below have been exchanged, added or modified compared to the previous lot.

Well	5'-primer	3'-primer	rationale
5	-	-	Changed to the 800 bp internal positive control.
10	Added	Added	Primer pair added for the B*3583 allele.
25	-	-	Changed to the 800 bp internal positive control.
36	Added	-	Primer added for the B*3579 allele.
41	-	Added	Primer added for the B*3582 and 3585 alleles.
44	-	Added	Primer added for the B*3578 allele.

Change in revision R01 compared to R00:

1. The B*460101 and B*460102 alleles are amplified by primer mix 28.

Change in revision R03 compared to R02:

2. The B*8201 allele is not amplified by primer mix 21.

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PRODUCT DESCRIPTION

HLA-B*35 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*3501 to B*3588 alleles.

PLATE LAYOUT

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

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

The 48 well cut PCR plate is marked with 'HLA-B*35'.

Well No. 1 is marked with the Lot No. '88E'.

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

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

INTERPRETATION

Due to the lack of B*35-specific sequence motifs, the interpretation of HLA-B*35 SSP subtypings will be influenced by many other HLA-B alleles. In addition, the Cw*0110 and Cw*0715 alleles will be weakly amplified by primer mix 30, the Cw*0203 and Cw*0512 alleles by primer mix 23, the Cw*0305, Cw*0325 and Cw*0327 alleles by primer mix 28, the Cw*0328, Cw*1510 and Cw*1508 alleles by primer mix 11, the Cw*0510 and the Cw*1508 alleles by the primer mix 11 and the Cw*070401-070402, the Cw*0711, Cw*0712 and the Cw*0745 alleles weakly by primer mix 47.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*35 alleles, i.e. **B*3501 to B*3588**, recognized by the HLA Nomenclature Committee in April 2008¹ will give rise to unique amplification patterns by the primers in the HLA-B*35 subtyping kit.

The HLA-B*35 subtyping kit cannot distinguish the B*350101 to B*350103, 350105 to 350107 alleles, the B*350201 and B*350202, the B*350401 and B*350402, the B*350801 and B*350802 alleles, the B*352001 and B*352002 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2008-April-08, release 2.21.0, www.ebi.ac.uk/imgt/hla.

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RESOLUTION IN HOMO- AND HETEROZYGOTES

The 87 HLA-B*35 alleles will give rise to 91 different amplification patterns (the B*350104 and B*35010x, the B*350801/350802 and 350803, the B*350901 and 350902, the B*351401 and 351402, B*356801 and B*356802 alleles yield different amplification patterns), that can be combined in 4 186 homozygous and heterozygous combinations. 1 679 of these genotypes do not give rise to unique amplification patterns. The different sizes of the specific PCR fragments generated by primer mixes 10, 16, 17, 22, 25, 26, 30, 31, 33, 35, 36, 38, 41, 42, 44 and 46 were not considered in these calculations.

++++++--	++-----	-----+-	---+-----	-----+-	-----++-	3505, 3583 = 3551, 3583
++++++--	++-----	-----+-	-----	-----+-	-----++-	3517, 3583 = 3530, 3583
++++++--	+-----+	-----+-	---+-----	-----	-----++-	3519, 3522 = 3522, 3577
++++++--	+-----	-+-----	---+-----	-----	-----++-	3504, 3572 = 3520, 3522
++++++--	+-----	-+-----	---+-----	-----	-----++-	3522, 3529 = 3522, 3576
++++++--	+-----	-----++-	---+-----	-----+-	-----++-	3505, 3581 = 3551, 3581
++++++--	+-----	-----++-	-----	-----+-	-----++-	3517, 3581 = 3530, 3581
++++++--	+-----	-----+-	---+-----	-----+-	-----++-	3502, 3505 = 3502, 3551
++++++--	+-----	-----+-	---+-----	-----	+-----++-	3522, 3552 = 3522, 3582
++++++--	+-----	-----+-	---+-----	-----	-----++-	350104, 3522 = 3504, 3505 = 3504, 3551 = 3522, 3530 = 3522, 3557
++++++--	+-----	-----+-	-----	-----+-	-----++-	3502, 3517 = 3502, 3530
++++++--	+-----	-----+-	-----	-----	-----++-	3504, 3517 = 3504, 3530
++++++--	-+-----+	-----+-	-----	-----+-	-----++-	3519, 3583 = 3577, 3583
++++++--	-+-----	-+-----	-----+	-----+-	-----++-	3529, 3583 = 3576, 3583
++++++--	-+-----	-----++-	-----	-----+-	-----++-	3507, 3581 = 3524, 3583
++++++--	-+-----	-----+-	-----	-+-----	-----++-	3540N, 3583 = 356801, 3583
++++++--	-+-----	-----+-	-----	-----+-	+-----++-	3552, 3583 = 3582, 3583
++++++--	-+-----	-----+-	-----	-----+-	-----++-	350104, 3583 = 3557, 3583
++++++--	-+-----	-----+-	-----	-----+-	-----++-	3501, 3583 = 3502, 3507 = 3507, 3583
++++++--	-+-----+	-----+-	-----	-----	-----++-	3508, 3512 = 350803, 3512
++++++--	-----+--	-----+-	---+-----	-----+-	-----++-	3519, 3544 = 3544, 3577
++++++--	-----+--	-+-----	---+-----	-----+-	-----++-	3529, 3544 = 3544, 3576
++++++--	-----+--	-----++-	-----	-----+-	-----++-	3502, 3521 = 3511, 3581 = 3521, 3581
++++++--	-----+--	-----+-	---+-----	-----+-	+-----++-	3544, 3552 = 3544, 3582
++++++--	-----+--	-----+-	---+-----	-----+-	-----++-	350104, 3544 = 3544, 3557
++++++--	-----+--	-----	---+-----	-----+-	-----++-	3511, 3544 = 3514, 3544 = 3544, 3562
++++++--	-----+--	-----+-	-----	-----	-----++-	3512, 3519 = 3512, 3577
++++++--	-----+--	-+-----	-----+	-----	-----++-	3512, 3529 = 3512, 3576
++++++--	-----+--	-----++-	-----	-----	-----++-	3512, 3524 = 3512, 3546
++++++--	-----+--	-----+-	-----	-+-----	-----++-	3512, 3540N = 3512, 356801
++++++--	-----+--	-----+-	-----	-----	+-----++-	3512, 3552 = 3512, 3582
++++++--	-----+--	-----+-	-----	-----	-----++-	3501, 3512 = 350104, 3512 = 3512, 3557
++++++--	-----+	-----++-	-----	-----+-	-----++-	3519, 3581 = 3577, 3581
++++++--	-----+	-----+-	-----	-----+-	-----++-	3502, 3519 = 3502, 3577
++++++--	-----+	-----+-	-----	-----	-----++-	3504, 3519 = 3504, 3577
++++++--	-----	-+-----	-----+	-----+-	-----++-	3529, 3581 = 3576, 3581
++++++--	-----	-+-----	-----+	-----+-	-----++-	3502, 3529 = 3502, 3576
++++++--	-----	-+-----	-----+	-----	-----++-	3504, 3529 = 3504, 3576
++++++--	-----	-----++-	-----	-+-----	-----++-	3540N, 3581 = 356801, 3581
++++++--	-----	-----++-	-----	-----+-	+-----++-	3552, 3581 = 3581, 3582

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++++++--	-----	-----++	-----	-----+-	-----++	350104, 3581 = 3502, 3546 = 3546, 3581 = 3557, 3581
++++++--	-----	-----++	-----	-----+-	-----++	3501, 3581 = 3502, 3524 = 3524, 3581
++++++--	-----	-----+	-----	---+---+	-----++	3502, 3540N = 3502, 356801
++++++--	-----	-----+	-----	---+-----	-----++	3504, 3540N = 3504, 356801
++++++--	-----	-----+	-----	-----+-	+---+---+	3502, 3552 = 3502, 3582
++++++--	-----	-----+	-----	-----+-	-----++	350104, 3502 = 3502, 3557
++++++--	-----	-----+	-----	-----	+---+---+	3504, 3552 = 3504, 3582
++++++--	-----	-----+	-----	-----	-----++	350104, 3504 = 3504, 3557
+++++++	+-----	-----+	---+-----	-----	-----++	3505, 3506 = 3506, 3551
+++++++	+-----	-----+	-----	-----+	-----++	3517, 3560 = 3530, 3560
+++++++	+-----	-----+	-----	-----	-----++	3506, 3517 = 3506, 3530
+++++++	+-----	-----+	-----	-----	-----++	3506, 3561 = 3508, 3559
+++++++	+-----	-----+	-----	-----+	-----++	3508, 3560 = 350803, 3560
+++++++	-----+	-----+	-----	-----	-----++	3519, 3559 = 3559, 3577
+++++++	-----+	---+-----	-----	-----	-----++	3529, 3559 = 3559, 3576
+++++++	-----+	-----+	-----	---+-----	-----++	3540N, 3559 = 3559, 356801
+++++++	-----+	-----+	-----	-----	+---+---+	3552, 3559 = 3559, 3582
+++++++	-----+	-----+	-----	-----	-----++	350104, 3559 = 3557, 3559
+++++++	-----+	-----+	-----	-----+	-----++	3519, 3560 = 3560, 3577
+++++++	-----+	-----+	-----	-----	-----++	3506, 3519 = 3506, 3577
+++++++	-----	---+-----	-----+	-----+	-----++	3529, 3560 = 3560, 3576
+++++++	-----	---+-----	-----+	-----	-----++	3506, 3529 = 3506, 3576
+++++++	-----	-----+	-----	---+-----	-----++	3506, 3540N = 3506, 356801
+++++++	-----	-----+	-----	-----+	+---+---+	3552, 3560 = 3560, 3582
+++++++	-----	-----+	-----	-----+	-----++	3501, 3560 = 350104, 3560
+++++++	-----	-----+	-----	-----	+---+---+	3506, 3552 = 3506, 3582
+++++++	-----	-----+	-----	-----	-----++	350104, 3506 = 3506, 3557
+++++++	+-----	-----+	+-----	-----+	-----++	3517, 3518 = 3518, 3530
+++++++	+-----	---+-----	+-----	-----+	-----++	3517, 3588 = 3530, 3588
+++++++	+-----	-----+	+-----	-----+	-----++	350902, 3517 = 350902, 3530
+++++++	+-----	-----+	-----	-----	-----++	350901, 3517 = 350901, 3530 = 3530, 3587
++++++--	---++-----	-----+	+-----	-----+-	-----++	350902, 3580 = 3510, 3518 = 3518, 3580
++++++--	---+---+	---+---+	+-----	-----+-	-----++	3508, 3588 = 3561, 3588
++++++--	---+---+	-----+	+-----	-----+	-----++	350902, 3561 = 3518, 3561
++++++--	---+-----	-----+	+-----	-----+	-----++	3518, 3519 = 3518, 3577
++++++--	---+-----	---+---+	+-----+	-----+	-----++	3518, 3529 = 3518, 3576
++++++--	---+-----	---+---+	+-----	-----+	-----++	3508, 3531 = 350803, 3531
++++++--	---+-----	-----+	+-----	+-----+	-----++	350902, 3545 = 3518, 3545 = 3518, 3571
++++++--	---+-----	-----+	+-----	-----+	+---+---+	3518, 3552 = 3518, 3582
++++++--	---+-----	-----+	+-----	-----+	-----++	350104, 3518 = 350803, 350902 =
++++++--	---+-----	-----+	+-----	-----+	-----++	350803, 3518 = 3518, 3557
++++++--	---+-----	-----+	+-----	-----+	-----++	3501, 3518 = 3508, 350902 = 3508, 3518 = 3518, 3527
++++++--	---+-----	-----+	-----	-----	-----++	3508, 3587 = 350803, 350901 = 350803, 3587
++++++--	-----+	---+---+	+-----	-----+	-----++	3519, 3588 = 3577, 3588
++++++--	-----+	---+---+	+-----+	-----+	-----++	3529, 3588 = 3576, 3588
++++++--	-----+	---+---+	+-----	-----+	+---+---+	3552, 3588 = 3582, 3588
++++++--	-----+	---+---+	+-----	-----+	-----++	350104, 3588 = 3557, 3588
++++++--	-----+	---+---+	+-----	-----+	-----++	3501, 3588 = 3527, 3588
++++++--	-----+	---+---+	+-----	-----+	-----++	3519, 3531 = 3531, 3577
++++++--	-----+	-----+	+-----	-----+	-----++	350902, 3519 = 350902, 3577
++++++--	-----+	-----+	-----	-----	-----++	3519, 3587 = 3577, 3587

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+++++---	-----+	-----+	-----	-----	-----	350901,3519 = 350901,3577
+++++---	-----	---+---+	+-----+	-----+	-----+	3529,3531 = 3531,3576
+++++---	-----	---+---+	+-----+	-----+	-----+	350902,3529 = 350902,3576
+++++---	-----	---+---+	-----+	-----	-----+	3529,3587 = 3576,3587
+++++---	-----	---+---+	-----+	-----	-----+	350901,3529 = 350901,3576
+++++---	-----	---+---+	+-----	-----+	+-----+	3531,3552 = 3531,3582
+++++---	-----	---+---+	+-----	-----+	-----+	3501,3531 = 350104,3531 = 3527,3531
+++++---	-----	-----+	-----	-----	-----+	350901,3546 = 3524,3587
+++++---	-----	-----+	+-----	-----+	+-----+	350902,3552 = 350902,3582
+++++---	-----	-----+	+-----	-----+	-----+	350104,350902 = 350902,3557
+++++---	-----	-----+	+-----	-----+	-----+	3501,350902 = 350902,3527
+++++---	-----	-----+	-----	-----	+-----+	3552,3587 = 3582,3587
+++++---	-----	-----+	-----	-----	+-----+	350901,3552 = 350901,3582
+++++---	-----	-----+	-----	-----	-----+	3501,3587 = 350104,350901 = 350104,3587 = 350901,3557
+++++---	-----	-----+	-----	-----	-----+	3505,3534 = 3534,3551
+++++---	-----	-----+	-----	-----	-----+	3517,3534 = 3530,3534
+++++---	-----	-----+	-----	-----	-----+	3508,3539 = 3534,3561
+++++---	-----	-----+	-----	-----	-----+	3539,3543 = 3539,3567
+++++---	-----	-----+	-----	-----	-----+	3534,3543 = 3534,3567
+++++---	-----	-----+	-----	-----	-----+	3519,3539 = 3539,3577
+++++---	-----	-----+	-----	-----	-----+	3529,3539 = 3539,3576
+++++---	-----	-----+	-----	-----	-----+	3539,3540N = 3539,356801
+++++---	-----	-----+	-----	-----	+-----+	3539,3552 = 3539,3582
+++++---	-----	-----+	-----	-----	-----+	350104,3539 = 3539,3557
+++++---	-----	-----+	-----	-----	-----+	3519,3534 = 3534,3577
+++++---	-----	-----+	-----	-----	-----+	3529,3534 = 3534,3576
+++++---	-----	-----+	-----	-----	-----+	3534,3540N = 3534,356801
+++++---	-----	-----+	-----	-----	+-----+	3534,3552 = 3534,3582
+++++---	-----	-----+	-----	-----	-----+	350104,3534 = 3534,3557
+++++---	-----	-----+	-----	-----	-----+	3503,3523 = 3523,3575
+++++---	-----	-----+	-----	-----	-----+	3505,3523 = 3523,3551
+++++---	-----	-----+	-----	-----	-----+	3517,3523 = 3523,3530
+++++---	-----	-----+	-----	-----	-----+	3523,3543 = 3523,3567
+++++---	-----	-----+	-----	-----	-----+	3519,3523 = 3523,3577
+++++---	-----	-----+	-----	-----	-----+	3523,3529 = 3523,3576
+++++---	-----	-----+	-----	-----	-----+	3523,3540N = 3523,356801
+++++---	-----	-----+	-----	-----	+-----+	3523,3552 = 3523,3582
+++++---	-----	-----+	-----	-----	-----+	350104,3523 = 3523,3557
+++++---	-----	-----+	-----	-----	-----+	3501,3523 = 3523,3523
+++++---	-----	-----+	-----	-----	-----+	3505,3513 = 3513,3551
+++++---	-----	-----+	-----	-----	-----+	3513,3517 = 3513,3530
+++++---	-----	-----+	-----	-----	-----+	3503,3516 = 3516,3575
+++++---	-----	-----+	-----	-----	-----+	3505,3533 = 3533,3551
+++++---	-----	-----+	-----	-----	-----+	3503,3566 = 3517,3533 = 3530,3533 = 3533,3566
+++++---	-----	-----+	-----	-----	-----+	3505,3536 = 3536,3551
+++++---	-----	-----+	-----	-----	-----+	3517,3536 = 3530,3536
+++++---	-----	-----+	-----	-----	-----+	3505,3574 = 3551,3574
+++++---	-----	-----+	-----	-----	-----+	3517,3574 = 3530,3574
+++++---	-----	-----+	-----	-----	-----+	3505,3556 = 3551,3556
+++++---	-----	-----+	-----	-----	-----+	3517,3556 = 3530,3556
+++++---	-----	-----+	-----	-----	-----+	3505,3584 = 3551,3584
+++++---	-----	-----+	-----	-----	-----+	3517,3584 = 3530,3584
+++++---	-----	-----+	-----	-----	-----+	3505,3570 = 3551,3570
+++++---	-----	-----+	-----	-----	+-----+	3505,3585 = 3551,3585

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++++--++	+-----	-----+	---+-----	-----	-+---++-	3505, 3565Q = 3551, 3565Q
++++--++	+-----	-----+	---+-----	-----	---+++--	3505, 3555 = 3551, 3555
++++--++	+-----	-----+	---+-----	-----	---+++--	3503, 3505 = 3503, 3551
++++--++	+-----	-----+	---+-----	-----	---+++--	3517, 3570 = 3530, 3570
++++--++	+-----	-----+	---+-----	-----	+---++--	3517, 3585 = 3530, 3585
++++--++	+-----	-----+	---+-----	-----	-+---++-	3517, 3565Q = 3530, 3565Q
++++--++	+-----	-----+	---+-----	-----	---+++--	3517, 3555 = 3530, 3555
++++--++	+-----	-----+	---+-----	-----	---+++--	3503, 3517 = 3503, 3530 =
						3517, 3575 = 3530, 3575
++++--++	-+-----	-----+	---+-----	-----	----+---	3503, 3507 = 3507, 3575
++++--++	--++----	-----+	---+-----	-----	----+---	3503, 3580 = 3508, 3513 =
						3575, 3580
++++--++	--+--+--	-----+	---+-----	-----	----+---	3503, 3561 = 3561, 3575
++++--++	--+--+--	-----+	---+-----	+-----	----+---	3503, 3545 = 3545, 3575
++++--++	--+--+--	-----+	---+-----	-----	----+---	3503, 350803 = 350803, 3575
++++--++	--+--+--	-----+	---+-----	-----	----+---	3503, 3508 = 3508, 3575
++++--++	--++----	-----+	---+-----	-----	----+---	3513, 3543 = 3513, 3567
++++--++	--+--+--	-----+	---+-----	-----	----+---	3510, 3533 = 3513, 3515
++++--++	--+--+--	-----+	---+-----	-----	----+---	3503, 3528 = 3513, 3520 =
						3528, 3575
++++--++	---+-----	--+--+--	---+-----	-----	----+---	3503, 3569 = 3513, 3529 =
						3569, 3574 = 3569, 3575
++++--++	---+-----	-----+	+-----	-----	----+---	3510, 3556 = 3513, 3527
++++--++	---+-----	-----+	-+-----	-----	----+---	3510, 3584 = 3513, 3550
++++--++	---+-----	-----+	-----	--+-----	----+---	3513, 3540N = 3513, 356801
++++--++	---+-----	-----+	-----	---+-----	----+---	3510, 3570 = 3513, 3535
++++--++	---+-----	-----+	-----	-----	+---++--	3510, 3585 = 3513, 3552 =
						3513, 3582
++++--++	---+-----	-----+	-----	-----	-+---++-	3510, 3565Q = 3513, 3553N
++++--++	---+-----	-----+	-----	-----	---+++--	3510, 3555 = 3513, 3578
++++--++	---+-----	-----+	-----	-----	---+++--	350104, 3513 = 3513, 3557
++++--++	---+-----	-----+	-----	-----	---+++--	3501, 3513 = 3503, 3510 =
						3510, 3575
++++--++	---+--+--	-----+	---+--+--	-----	---+++--	3533, 3543 = 3533, 3567
++++--++	---+--+--	+-----	---+--+--	-----	---+++--	3536, 3543 = 3536, 3567
++++--++	---+--+--	--+--+--	---+--+--	-----	---+++--	3543, 3574 = 3567, 3574
++++--++	---+--+--	-----++	-----	-----	---+++--	3503, 3521 = 3521, 3575
++++--++	---+--+--	-----+	+--+--+--	-----	---+++--	3543, 3556 = 3556, 3567
++++--++	---+--+--	-----+	-+--+--+	-----	---+++--	3543, 3584 = 3567, 3584
++++--++	---+--+--	-----+	---+--+--	---+--+--	---+++--	3503, 3579 = 3543, 3570 =
						3567, 3570 = 3570, 3579
++++--++	---+--+--	-----+	---+--+--	-----	+---++--	3543, 3585 = 3567, 3585
++++--++	---+--+--	-----+	---+--+--	-----	-+---++-	3543, 3565Q = 3565Q, 3567
++++--++	---+--+--	-----+	---+--+--	-----	---+++--	3543, 3555 = 3555, 3567
++++--++	---+--+--	-----+	---+--+--	-----	---+++--	3503, 3543 = 3503, 3567
++++--++	---+--+--	-----+	-----	-----	---+++--	3503, 3514 = 3514, 3575
++++--++	---+--+--	-----+	-----	-----	---+++--	3503, 3511 = 3511, 3575
++++--++	---+--+--	-----	---+--+--	-----	---+++++	3538, 3543 = 3538, 3567
++++--++	-----++	-----+	---+--+--	-----	---+---	3519, 3533 = 3533, 3577
++++--++	-----+	+-----	---+--+--	-----	---+---	3515, 3536 = 3526, 3533
++++--++	-----+	--+--+--	---+--+--	-----	---+---	3529, 3533 = 3533, 3576
++++--++	-----+	-----+	+-----	-----	---+---	3515, 3556 = 3527, 3533
++++--++	-----+	-----+	-+--+--+	-----	---+---	3515, 3584 = 3533, 3550
++++--++	-----+	-----+	-----	--+-----	---+---	3533, 3540N = 3533, 356801
++++--++	-----+	-----+	-----	---+-----	---+---	3515, 3570 = 3533, 3535
++++--++	-----+	-----+	-----	-----	+---++--	3515, 3585 = 3533, 3552 =
						3533, 3582
++++--++	-----+	-----+	-----	-----	-+---++-	3515, 3565Q = 3533, 3553N
++++--++	-----+	-----+	-----	-----	---+++--	3515, 3555 = 3533, 3578

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++++--++	-----+-	-----+-	-----+-	-----+-	-----+-	350104, 3533 = 3533, 3557
++++--++	-----+-	-----+-	-----+-	-----+-	-----+-	3501, 3533 = 3503, 3515 =
						3515, 3533 = 3515, 3575 =
						3533, 3549
++++--++	-----+-	+-----+-	-----+-	-----+-	-----+-	3519, 3536 = 3536, 3577
++++--++	-----+-	+-----+-	-----+-	-----+-	-----+-	3519, 3574 = 3574, 3577
++++--++	-----+-	+-----+-	+-----+-	-----+-	-----+-	3519, 3556 = 3556, 3577
++++--++	-----+-	+-----+-	+-----+-	-----+-	-----+-	3519, 3584 = 3577, 3584
++++--++	-----+-	+-----+-	+-----+-	+-----+-	-----+-	3503, 3547 = 3547, 3575
++++--++	-----+-	+-----+-	+-----+-	+-----+-	-----+-	3519, 3570 = 3570, 3577
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3519, 3585 = 3577, 3585
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3519, 3565Q = 3565Q, 3577
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3519, 3555 = 3555, 3577
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3519, 3538 = 3538, 3577
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3503, 3519 = 3503, 3577 =
						3519, 3575 = 3575, 3577
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3529, 3536 = 3536, 3576
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3503, 3526 = 3526, 3536 =
						3526, 3575 = 3536, 3549
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3536, 3540N = 3536, 356801
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3536, 3552 = 3536, 3582
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	350104, 3536 = 3536, 3557
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3503, 3520 = 3520, 3575
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3529, 3556 = 3556, 3576
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3529, 3584 = 3576, 3584
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3529, 3570 = 3570, 3576
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3529, 3565Q = 3565Q, 3576
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3529, 3555 = 3555, 3576
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3529, 3538 = 3538, 3576
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3503, 3529 = 3503, 3576 =
						3529, 3574 = 3529, 3575 =
						3574, 3576 = 3575, 3576
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3540N, 3574 = 356801, 3574
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3552, 3574 = 3574, 3582
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	350104, 3574 = 3557, 3574
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3503, 3525 = 3525, 3575
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3503, 3546 = 3546, 3575
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3503, 3524 = 3524, 3575
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3527, 3584 = 3550, 3556
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3540N, 3556 = 3556, 356801
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3527, 3570 = 3535, 3556
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3503, 3564 = 3556, 3564
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3527, 3585 = 3552, 3556 =
						3556, 3582
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3527, 3565Q = 3553N, 3556
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3527, 3555 = 3556, 3578
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	350104, 3556 = 3556, 3557
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3501, 3556 = 3503, 3527 =
						3527, 3556 = 3527, 3575
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3540N, 3584 = 356801, 3584
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3535, 3584 = 3550, 3570
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3550, 3585 = 3552, 3584 =
						3582, 3584
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3550, 3565Q = 3553N, 3584
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3550, 3555 = 3578, 3584
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	350104, 3584 = 3557, 3584
++++--++	-----+-	+-----+-	+-----+-	+-----+-	+-----+-	3501, 3584 = 3503, 3550 =
						3542, 3584 = 3550, 3575 =
						3550, 3584

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Lot-specific Information

++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3503, 3542 = 3542, 3575
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3503, 3541 = 3541, 3575
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3503, 3549 = 3549, 3575
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3503, 3571 = 3571, 3575
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3503, 3548 = 3548, 3575
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3540N, 3570 = 356801, 3570
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3540N, 3585 = 356801, 3585
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3540N, 3565Q = 3565Q, 356801
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3540N, 3555 = 3555, 356801
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3538, 3540N = 3538, 356801
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3503, 3540N = 3503, 356801 = 3540N, 3575
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3535, 3585 = 3552, 3570 = 3570, 3582
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3535, 3565Q = 3553N, 3570
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3535, 3555 = 3570, 3578
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	350104, 3570 = 3557, 3570
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3501, 3570 = 3503, 3535 = 3535, 3570 = 3535, 3575
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3503, 3562 = 3562, 3575
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3503, 3563 = 3563, 3575
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3552, 3565Q = 3553N, 3585 = 3565Q, 3582
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3552, 3555 = 3555, 3582
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	350104, 3585 = 3557, 3585
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3538, 3552 = 3538, 3582
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3501, 3585 = 3503, 3552 = 3503, 3582 = 3552, 3575 = 3552, 3585 = 3575, 3582
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3553N, 3555 = 3565Q, 3578
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	350104, 3565Q = 3557, 3565Q
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3501, 3565Q = 3503, 3553N = 3553N, 3565Q
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3503, 3554 = 3554, 3575
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	350104, 3555 = 3555, 3557
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3501, 3555 = 3503, 3578 = 3555, 3578 = 3575, 3578
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	350104, 3538 = 3538, 3557
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	350104, 3503 = 350104, 3575 = 3503, 3557 = 3557, 3575
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3501, 3503 = 3501, 3575
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3505, 3507 = 3507, 3551
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3507, 3517 = 3507, 3530
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3505, 3580 = 3551, 3580
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	350803, 3516 = 3517, 3580 = 3530, 3580
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3508, 3558 = 350803, 3558
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3508, 3566 = 350803, 3566
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3505, 3545 = 3545, 3551
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3505, 3508 = 3505, 350803 = 3508, 3551 = 350803, 3551
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3517, 3545 = 3530, 3545
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3508, 3517 = 3508, 3530 = 350803, 3517 = 350803, 3530
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3516, 3543 = 3516, 3567
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3510, 3566 = 3516, 3566
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3505, 3528 = 3528, 3551
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3510, 3572 = 3516, 3572
++++-+ - - - - - - - - - - + - - + - - - - - - - - - - + - - +	3517, 3528 = 3528, 3530

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Lot-specific Information

++++----	+--+-----	--+---+-	---+---+	-----	-----++-	3505, 3569 = 3551, 3569
++++----	+--+-----	--+---+-	-----+	-----	-----++-	3517, 3569 = 3530, 3569
++++----	+--+-----	-----+	---+---	-----	-----++-	3505, 3510 = 3505, 3516 =
						3510, 3551 = 3516, 356802
++++----	+--+-----	-----+	-----	--+-----	-----++-	3516, 3540N = 3516, 356801
++++----	+--+-----	-----+	-----	-----	+---++-	3516, 3552 = 3516, 3582
++++----	+--+-----	-----+	-----	-----	-----++-	350104, 3516 = 3510, 3517 =
						3510, 3530 = 3516, 3530 =
						3516, 3557
++++----	+---+---+	-----+	---+---	-----	-----++-	3519, 3558 = 3558, 3577
++++----	+---+---	--+---+-	---+---	-----	-----++-	3529, 3558 = 3558, 3576
++++----	+---+---	-----+	---+---	-----	-----++-	3505, 3521 = 3524, 3558 =
						3546, 3558
++++----	+---+---	-----+	---+---	-----	-----++-	3521, 3551 = 3521, 3558
++++----	+---+---	-----+	---+---	-----+	-----++-	3505, 3514 = 3530, 3543 =
						3530, 3567
++++----	+---+---	-----+	---+---	-----	+---++-	3552, 3558 = 3558, 3582
++++----	+---+---	-----+	---+---	-----	-----++-	3501, 3558 = 350104, 3558 =
						3505, 3511 = 3530, 3558 =
						3557, 3558
++++----	+---+---	-----	---+---	-----+	-----++-	3514, 3551 = 3514, 3558 =
						3517, 3543 = 3517, 3567 =
						3558, 3562
++++----	+---+---	-----	---+---	-----	-----++-	3511, 3551 = 3511, 3558 =
						3517, 3558
++++----	+-----++	-----+	-----+	-----	-----++-	3519, 3566 = 3566, 3577
++++----	+-----+	--+---+-	-----+	-----	-----++-	3529, 3566 = 3566, 3576
++++----	+-----+	-----+	-----+	-----	-----++-	3524, 3566 = 3546, 3566
++++----	+-----+	-----+	---+---	-----	-----++-	3505, 3515 = 3515, 3551
++++----	+-----+	-----+	-----+	-----	+---++-	3552, 3566 = 3566, 3582
++++----	+-----+	-----+	-----+	-----	-----++-	3501, 3566 = 350104, 3566 =
						3515, 3517 = 3515, 3530 =
						3515, 3566 = 3517, 3566 =
						3530, 3566 = 3549, 3566 =
						3557, 3566
++++----	+-----+	+-----+	---+---	-----	-----++-	3519, 3572 = 3572, 3577
++++----	+-----+	-----+	---+---	+-----	-----++-	3505, 3547 = 3547, 3551
++++----	+-----+	-----+	---+---	-----	-----++-	3505, 3519 = 3505, 3577 =
						3519, 3551 = 3551, 3577
++++----	+-----+	-----+	-----	+-----	-----++-	3517, 3547 = 3530, 3547
++++----	+-----+	-----+	-----	-----	-----++-	3517, 3519 = 3517, 3577 =
						3519, 3530 = 3530, 3577
++++----	+-----	+-----+	---+---	-----	-----++-	3505, 3526 = 3526, 3551
++++----	+-----	+-----+	---+---	-----	-----++-	3517, 3526 = 3526, 3530
++++----	+-----	+-----+	---+---	-----	-----++-	350104, 3572 = 3505, 3520 =
						3517, 3572 = 3520, 3551 =
						3530, 3572 = 3557, 3572
++++----	+-----	+-----+	-----	-----	-----++-	3517, 3520 = 3520, 3530
++++----	+-----	--+---+-	---+---	-----	-----++-	3505, 3529 = 3505, 3576 =
						3529, 3551 = 3551, 3576
++++----	+-----	--+---+-	-----+	-----	-----++-	3517, 3529 = 3517, 3576 =
						3529, 3530 = 3530, 3576
++++----	+-----	-----+	---+---	-----	-----++-	3505, 3525 = 3525, 3551
++++----	+-----	-----+	-----+	-----	-----++-	3517, 3525 = 3525, 3530
++++----	+-----	-----+	---+---	-----	-----++-	3505, 3524 = 3505, 3546 =
						3524, 3551 = 3546, 3551
++++----	+-----	-----+	-----	-----	-----++-	3517, 3524 = 3517, 3546 =
						3524, 3530 = 3530, 3546
++++----	+-----	-----+	+---+---	-----	-----++-	3505, 3527 = 3527, 3551

101.522-24u/03u – without *Taq* polymerase

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Lot-specific Information

++++----	+-----	-----+	+-----	-----+	-----++-	3517, 3564 = 3530, 3564
++++----	+-----	-----+	+-----	-----	-----++-	3517, 3527 = 3527, 3530
++++----	+-----	-----+	-+-+--+	-----	-----++-	3505, 3550 = 3550, 3551
++++----	+-----	-----+	-+-+--	-----	-----++-	3505, 3542 = 3542, 3551
++++----	+-----	-----+	-+-+--	-----	-----++-	3517, 3550 = 3530, 3550
++++----	+-----	-----+	-+-+--	-----	-----++-	3517, 3542 = 3530, 3542
++++----	+-----	-----+	-++----	-----	-----++-	3505, 3541 = 3541, 3551
++++----	+-----	-----+	-++----	-----	-----++-	3517, 3541 = 3530, 3541
++++----	+-----	-----+	-++----	-----	-----++-	3505, 3549 = 3549, 3551
++++----	+-----	-----+	-++----	+-----	-----++-	3505, 3571 = 3551, 3571
++++----	+-----	-----+	-++----	-+-----	-----++-	3505, 3548 = 3548, 3551
++++----	+-----	-----+	-++----	-+-----	-----++-	3505, 3540N = 3540N, 3551
++++----	+-----	-----+	-++----	-+-----	-----++-	3505, 3535 = 3535, 3551
++++----	+-----	-----+	-++----	-+-----	-----++-	3505, 3563 = 3551, 3563
++++----	+-----	-----+	-++----	-+-----	-----++-	3505, 3552 = 3505, 3582 =
						3551, 3552 = 3551, 3582
++++----	+-----	-----+	-++----	-+-----	-----++-	3505, 3554 = 3551, 3554
++++----	+-----	-----+	-++----	-+-----	-----++-	3505, 3578 = 3551, 3578
++++----	+-----	-----+	-++----	-+-----	-----++-	3501, 3505 = 3501, 3551 =
						350104, 3505 = 350104, 3551
						= 3505, 3517 = 3505, 3530 =
						3505, 3557 = 3517, 356802 =
						3530, 3532 = 3530, 3551 =
						3530, 356802 = 3551, 3557
++++----	+-----	-----+	-++----	-+-----	-----++-	3517, 3537 = 3530, 3537
++++----	+-----	-----+	-++----	-+-----	-----++-	3517, 3549 = 3530, 3549
++++----	+-----	-----+	-++----	+-----	-----++-	3517, 3571 = 3530, 3571
++++----	+-----	-----+	-++----	-+-----	-----++-	3517, 3548 = 3530, 3548
++++----	+-----	-----+	-++----	-+-----	-----++-	3517, 3540N = 3517, 356801 =
						3530, 3540N = 3530, 356801
++++----	+-----	-----+	-++----	-+-----	-----++-	3517, 3535 = 3530, 3535
++++----	+-----	-----+	-++----	-+-----	-----++-	3517, 3563 = 3530, 3563
++++----	+-----	-----+	-++----	-+-----	-----++-	3517, 3552 = 3517, 3582 =
						3530, 3552 = 3530, 3582
++++----	+-----	-----+	-++----	-+-----	-----++-	3517, 3553N = 3530, 3553N
++++----	+-----	-----+	-++----	-+-----	-----++-	3517, 3554 = 3530, 3554
++++----	+-----	-----+	-++----	-+-----	-----++-	3517, 3578 = 3530, 3578
++++----	+-----	-----+	-++----	-+-----	-----++-	3501, 3517 = 3501, 3530 =
						350104, 3517 = 350104, 3530
						= 3517, 3530 = 3517, 3557 =
						3530, 3530 = 3530, 3557
++++----	+-----	-----	-++----	-+-----	-----++-	3517, 3532 = 3517, 3551
++++----	-+-+--	-----+	-++----	-+-----	-----++-	3507, 3543 = 3507, 3567
++++----	-+-+--	-----+	-++----	-+-----	-----++-	3507, 3519 = 3507, 3577
++++----	-+-+--	-----+	-++----	-+-----	-----++-	3507, 3529 = 3507, 3576
++++----	-+-+--	-----+	-++----	-+-----	-----++-	3507, 3540N = 3507, 356801
++++----	-+-+--	-----+	-++----	-+-----	-----++-	3507, 3552 = 3507, 3582
++++----	-+-+--	-----+	-++----	-+-----	-----++-	350104, 3507 = 3507, 3557
++++----	-+-+--	-----+	-++----	-+-----	-----++-	3501, 3507 = 3507, 3507
++++----	-+++	-----+	-++----	-+-----	-----++-	3543, 3580 = 3567, 3580
++++----	-+++	-----+	-++----	-+-----	-----++-	3510, 3561 = 3561, 3580
++++----	-+++	-----+	-++----	-+-----	-----++-	3508, 3528 = 3520, 3580
++++----	-+++	-----+	-++----	-+-----	-----++-	3508, 3569 = 3529, 3580
++++----	-+++	-----+	-++----	-+-----	-----++-	3510, 3545 = 3545, 3580 =
						3571, 3580
++++----	-+++	-----+	-++----	-+-----	-----++-	3540N, 3580 = 356801, 3580
++++----	-+++	-----+	-++----	-+-----	-----++-	3552, 3580 = 3580, 3582
++++----	-+++	-----+	-++----	-+-----	-----++-	350104, 3580 = 350803, 3510
						= 350803, 3580 = 3557, 3580

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++++----	--++----	-----+-	-----	-----	-----++	3501, 3580 = 3508, 3510 = 3508, 3580
++++----	--+-++--	-----	---+----	-----+-	-----++	3543, 3561 = 3561, 3567
++++----	--+-++-	-----+-	-----	-----+-	-----++	3508, 3586 = 350803, 3586
++++----	--+-++-	-----+-	---+----	+-----+	-----++	3543, 3545 = 3545, 3567
++++----	--+-++-	-----+-	---+----	---+----	-----++	3508, 3579 = 350803, 3579
++++----	--+-++-	-----+-	---+----	-----+-	-----++	3508, 3543 = 3508, 3567 = 350803, 3543 = 350803, 3567
++++----	--+-++-	-----+-	-----	-----	-----++	3519, 3561 = 3561, 3577
++++----	--+-++-	-----+-	-----+	-----	-----++	3529, 3561 = 3561, 3576
++++----	--+-++-	-----+-	-----	+-----	-----++	3545, 3561 = 3561, 3571
++++----	--+-++-	-----+-	-----	---+----	-----++	3540N, 3561 = 3561, 356801
++++----	--+-++-	-----+-	-----	-----	+-----++	3552, 3561 = 3561, 3582
++++----	--+-++-	-----+-	-----	-----	-----++	350104, 3561 = 350803, 3561 = 3557, 3561
++++----	--+-++-	-----+-	-----	-----	-----++	3501, 3561 = 3508, 3561
++++----	--+-++-	-----+-	-----	+-----	-----++	3508, 3547 = 3519, 3545 = 3545, 3547 = 3545, 3577
++++----	--+-++-	-----+-	-----	-----	-----++	350803, 3519 = 350803, 3577
++++----	--+-++-	-----+-	-----	-----	-----++	3508, 3519 = 3508, 3577
++++----	--+-++-	-----+-	-----+	+-----	-----++	3529, 3545 = 3545, 3576
++++----	--+-++-	-----+-	-----+	-----	-----++	350803, 3529 = 350803, 3576
++++----	--+-++-	-----+-	-----+	-----	-----++	3508, 3529 = 3508, 3576
++++----	--+-++-	-----+-	-----++	-----	-----++	3508, 3546 = 350803, 3524 = 350803, 3546
++++----	--+-++-	-----+-	---+----	-----	-----++	3508, 356802 = 350803, 3532 = 350803, 356802
++++----	--+-++-	-----+-	-----	+-----	-----++	3540N, 3545 = 3545, 356801
++++----	--+-++-	-----+-	-----	+-----	+-----++	3545, 3552 = 3545, 3582
++++----	--+-++-	-----+-	-----	+-----	-----++	350104, 3545 = 350803, 3545 = 350803, 3571 = 3545, 3557
++++----	--+-++-	-----+-	-----	+-----	-----++	3501, 3545 = 3508, 3545 = 3508, 3571 = 3545, 3545 = 3545, 3571
++++----	--+-++-	-----+-	-----	---+----	-----++	350803, 3540N = 350803, 356801
++++----	--+-++-	-----+-	-----	---+----	-----++	3508, 3540N = 3508, 356801
++++----	--+-++-	-----+-	-----	-----	+-----++	350803, 3552 = 350803, 3582
++++----	--+-++-	-----+-	-----	-----	+-----++	3508, 3552 = 3508, 3582
++++----	--+-++-	-----+-	-----	-----	-----++	3501, 350803 = 350104, 3508 = 350104, 350803 = 3508, 350803 = 3508, 3557 = 350803, 350803 = 350803, 3557
++++----	--+-++-	-----+-	-----	-----	-----++	3501, 3508 = 3508, 3508
++++----	--+-++-	---+----	---+----	-----+-	-----++	3528, 3543 = 3528, 3567
++++----	---+----	---+----	---+----	-----+-	-----++	3543, 3569 = 3567, 3569
++++----	---+----	-----+-	---+----	-----+-	-----++	3510, 3543 = 3510, 3567
++++----	---+----	---+----	-----+	-----	-----++	3520, 3569 = 3528, 3529
++++----	---+----	---+----	---+----	---+----	-----++	3528, 3540N = 3528, 356801
++++----	---+----	---+----	-----	-----	-----++	350104, 3528 = 3528, 3557
++++----	---+----	---+----	-----	-----	-----++	3501, 3528 = 3510, 3520
++++----	---+----	---+----	-----+	---+----	-----++	3540N, 3569 = 356801, 3569
++++----	---+----	---+----	-----+	-----	+-----++	3552, 3569 = 3569, 3582
++++----	---+----	---+----	-----+	-----	-----++	350104, 3569 = 3557, 3569
++++----	---+----	---+----	-----+	-----	-----++	3501, 3569 = 3510, 3529 = 3529, 3569
++++----	---+----	-----+-	-----	---+----	-----++	3510, 3540N = 3510, 356801
++++----	---+----	-----+-	-----	-----	+-----++	3510, 3552 = 3510, 3582

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++++-----	---+-----	-----+-	-----	-----	-----++-	350104, 3510 = 3510, 3557
++++-----	---+--++	-----+-	-----	-----+	-----++-	3519, 3586 = 3577, 3586
++++-----	---+--+	--+-----	-----+	-----+	-----++-	3529, 3586 = 3576, 3586
++++-----	---+--+	-----++	-----	-----+	-----++-	3524, 3586 = 3546, 3586
++++-----	---+--+	-----+-	---+--+	-----+	-----++-	3515, 3543 = 3515, 3567
++++-----	---+--+	-----+-	-----+	-----+	-----++-	3515, 3586 = 3549, 3586
++++-----	---+--+	-----+-	-----	-----+	+-----++-	3552, 3586 = 3582, 3586
++++-----	---+--+	-----+-	-----	-----+	-----++-	3501, 3586 = 350104, 3586 = 3557, 3586
++++-----	---+--+	-----	-----	-----+	-----++-	3511, 3586 = 3514, 3586 = 3562, 3586
++++-----	---+--+	-----++	-----	-----	-----++-	3519, 3521 = 3521, 3577
++++-----	---+--+	-----+-	---+-----	+-----+	-----++-	3543, 3547 = 3547, 3567
++++-----	---+--+	-----+-	---+-----	---+--+	-----++-	3519, 3579 = 3577, 3579
++++-----	---+--+	-----+-	---+-----	-----+	-----++-	3519, 3543 = 3519, 3567 = 3543, 3577 = 3567, 3577
++++-----	---+--+	-----+-	-----	-----+	-----++-	3514, 3519 = 3514, 3577
++++-----	---+--+	-----+-	-----	-----	-----++-	3511, 3519 = 3511, 3577
++++-----	---+--	+-----+	---+--+	-----+	-----++-	3526, 3543 = 3526, 3567
++++-----	---+--	+-----+	---+-----	-----+	-----++-	3520, 3543 = 3520, 3567
++++-----	---+--	---+--+	-----+	-----	-----++-	3521, 3529 = 3521, 3576
++++-----	---+--	---+--+	---+--+	---+--+	-----++-	3529, 3579 = 3576, 3579
++++-----	---+--	---+--+	---+--+	-----+	-----++-	3529, 3543 = 3529, 3567 = 3543, 3576 = 3567, 3576
++++-----	---+--	---+--+	-----+	-----+	-----++-	3514, 3529 = 3514, 3576
++++-----	---+--	---+--+	-----+	-----	-----++-	3511, 3529 = 3511, 3576
++++-----	---+--	---+--+	---+--+	-----+	-----++-	3525, 3543 = 3525, 3567
++++-----	---+--	-----++	---+-----	-----+	-----++-	3524, 3543 = 3524, 3567 = 3546, 3567
++++-----	---+--	-----++	-----	---+-----	-----++-	3521, 3540N = 3521, 356801
++++-----	---+--	-----++	-----	-----	+-----++-	3521, 3552 = 3521, 3582
++++-----	---+--	-----++	-----	-----	-----++-	350104, 3521 = 3511, 3546 = 3521, 3546 = 3521, 3557
++++-----	---+--	-----++	-----	-----	-----++-	3501, 3521 = 3511, 3524 = 3521, 3524
++++-----	---+--	-----+-	---+-----	-----+	-----++-	3521, 3543 = 3521, 3567
++++-----	---+--	-----+-	-----	-----+	-----++-	3514, 3521 = 3521, 3562
++++-----	---+--	-----+-	-----	-----	-----++-	3511, 3521 = 3521, 3521
++++-----	---+--	-----+-	+--+-----	-----+	-----++-	3527, 3543 = 3527, 3567
++++-----	---+--	-----+-	+--+--+	-----+	-----++-	3543, 3550 = 3550, 3567
++++-----	---+--	-----+-	+--+-----	-----+	-----++-	3542, 3543 = 3542, 3567
++++-----	---+--	-----+-	---+--	-----+	-----++-	3541, 3543 = 3541, 3567
++++-----	---+--	-----+-	---+--+	-----+	-----++-	3543, 3549 = 3549, 3567
++++-----	---+--	-----+-	---+-----	+-----+	-----++-	3543, 3571 = 3567, 3571
++++-----	---+--	-----+-	---+-----	+-----+	-----++-	3543, 3548 = 3548, 3567
++++-----	---+--	-----+-	---+-----	---+--+	-----++-	3540N, 3543 = 3540N, 3567
++++-----	---+--	-----+-	---+-----	---+--+	+-----++-	3552, 3579 = 3579, 3582
++++-----	---+--	-----+-	---+-----	---+--+	-----++-	3501, 3579 = 350104, 3579 = 3535, 3543 = 3535, 3567 = 3535, 3579
++++-----	---+--	-----+-	---+-----	-----++	-----++-	3543, 3563 = 3563, 3567
++++-----	---+--	-----+-	---+-----	-----+	+-----++-	3543, 3552 = 3543, 3582 = 3552, 3567 = 3567, 3582
++++-----	---+--	-----+-	---+-----	-----+	---+--++-	3543, 3554 = 3554, 3567
++++-----	---+--	-----+-	---+-----	-----+	---+--++-	3543, 3578 = 3567, 3578
++++-----	---+--	-----+-	---+-----	-----+	-----++-	3501, 3543 = 3501, 3567 = 350104, 3543 = 350104, 3567 = 3514, 356802 = 3557, 3567
++++-----	---+--	-----+-	-----	---+--+	-----++-	3514, 3540N = 3514, 356801

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++++----	----+---	-----+-	-----	--+-----	-----+--+	3511,3540N = 3511,356801
++++----	----+---	-----+-	-----	-----+	+---+--+	3514,3552 = 3514,3582
++++----	----+---	-----+-	-----	-----+	-----+++	350104,3514 = 3514,3557
++++----	----+---	-----+-	-----	-----	+---+--+	3511,3552 = 3511,3582
++++----	----+---	-----+-	-----	-----	-----+++	350104,3511 = 3511,3557
++++----	----+---	-----	---+-----	---+-----	-----+++	3511,3579 = 3514,3579 = 3562,3579
++++----	----+---	-----	---+-----	-----+	-----+++	3511,3543 = 3511,3567 = 3514,3543 = 3514,3567 = 3543,3562 = 3562,3567
++++----	----+---	-----	-----	-----+	-----+--+	3511,3514 = 3511,3562 = 3514,3514 = 3514,3562
++++----	-----++	-----+-	-----+-	-----	-----+--+	3515,3519 = 3515,3577
++++----	-----+	--+-----	-----+-	-----	-----+--+	3515,3529 = 3515,3576
++++----	-----+	-----+-	-----+-	--+-----	-----+--+	3515,3540N = 3515,356801
++++----	-----+	-----+-	-----+-	-----	+---+--+	3515,3552 = 3515,3582
++++----	-----+	-----+-	-----+-	-----	-----+++	350104,3515 = 3515,3557
++++----	-----+	-----+-	-----+-	-----	-----+--+	3501,3515 = 3515,3515 = 3515,3549
++++----	-----+	--+-----	-----	-----	-----+--+	3519,3520 = 3520,3577
++++----	-----+	--+-----	-----+	-----	-----+--+	3519,3529 = 3529,3577 = 3576,3577
++++----	-----+	-----++	-----	-----	-----+--+	3519,3524 = 3524,3577
++++----	-----+	-----+-	+-----	-----+	-----+--+	3519,3564 = 3564,3577
++++----	-----+	-----+-	+-----	-----	-----+--+	3519,3527 = 3527,3577
++++----	-----+	-----+-	--+-----	-----	-----+--+	3519,3550 = 3550,3577
++++----	-----+	-----+-	--+-----	-----	-----+--+	3519,3542 = 3542,3577
++++----	-----+	-----+-	--+-----	-----	-----+--+	3519,3541 = 3541,3577
++++----	-----+	-----+	---+-----	-----	-----+++	3519,356802 = 356802,3577
++++----	-----+	-----+	---+-----	-----	-----+--+	3519,3532 = 3532,3577
++++----	-----+	-----+	---+-----	-----	-----+--+	3519,3537 = 3537,3577
++++----	-----+	-----+	-----	+-----	-----+--+	3540N,3547 = 3547,356801
++++----	-----+	-----+	-----	+-----	+---+--+	3547,3552 = 3547,3582
++++----	-----+	-----+	-----	+-----	-----+++	350104,3547 = 3547,3557
++++----	-----+	-----+	-----	+-----	-----+--+	3501,3547 = 3519,3571 = 3547,3571 = 3547,3577 = 3571,3577
++++----	-----+	-----+	-----	--+-----	-----+--+	3519,3548 = 3548,3577
++++----	-----+	-----+	-----	--+-----	-----+--+	3519,3540N = 3519,356801 = 3540N,3577 = 356801,3577
++++----	-----+	-----+	-----	---+-----	-----+--+	3519,3535 = 3535,3577
++++----	-----+	-----+	-----	-----+	-----+--+	3519,3562 = 3562,3577
++++----	-----+	-----+	-----	-----	+---+--+	3519,3552 = 3519,3582 = 3552,3577 = 3577,3582
++++----	-----+	-----+	-----	-----	+---+--+	3519,3553N = 3553N,3577
++++----	-----+	-----+	-----	-----	--+-----	3519,3554 = 3554,3577
++++----	-----+	-----+	-----	-----	-----+++	3519,3578 = 3577,3578
++++----	-----+	-----+	-----	-----	-----+++	350104,3519 = 350104,3577 = 3519,3557 = 3557,3577
++++----	-----+	-----+	-----	-----	-----+--+	3501,3519 = 3501,3577 = 3519,3577 = 3577,3577
++++----	-----	+-----+	-----+-	--+-----	-----+--+	3526,3540N = 3526,356801
++++----	-----	+-----+	-----+-	-----	-----+++	350104,3526 = 3526,3557
++++----	-----	--+-----	-----	--+-----	-----+--+	3520,3540N = 3520,356801
++++----	-----	--+-----	-----	-----	-----+++	350104,3520 = 3520,3557
++++----	-----	--+-----	-----+	-----	-----+--+	3524,3529 = 3524,3576
++++----	-----	--+-----	+-----+	-----+	-----+--+	3529,3564 = 3564,3576
++++----	-----	--+-----	+-----+	-----	-----+--+	3527,3529 = 3527,3576
++++----	-----	--+-----	--+-----	-----	-----+--+	3529,3550 = 3550,3576

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++++-----	-----	--+---+-	-+-----+	-----	----+---+	3529, 3542 = 3542, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3529, 3541 = 3541, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3529, 356802 = 356802, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3529, 3532 = 3532, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3529, 3537 = 3537, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3529, 3571 = 3571, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3529, 3548 = 3548, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3529, 3540N = 3529, 356801 = 3540N, 3576 = 356801, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3529, 3535 = 3535, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3529, 3562 = 3562, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3529, 3552 = 3529, 3582 = 3552, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3529, 3553N = 3553N, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3529, 3554 = 3554, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	350104, 3529 = 350104, 3576 = 3529, 3557 = 3557, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3501, 3529 = 3501, 3576 = 3529, 3529 = 3529, 3576
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3525, 3542 = 3525, 3550
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3525, 3540N = 3525, 356801
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3525, 3552 = 3525, 3582
++++-----	-----	--+---+-	-+-----+	-----	----+---+	350104, 3525 = 3525, 3557
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3524, 356802 = 3532, 3546 = 3546, 356802
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3540N, 3546 = 3546, 356801
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3524, 3540N = 3524, 356801
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3546, 3552 = 3546, 3582
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3524, 3552 = 3524, 3582
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3501, 3546 = 350104, 3524 = 350104, 3546 = 3524, 3546 = 3524, 3557
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3501, 3524 = 3524, 3524
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3527, 3540N = 3527, 356801
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3552, 3564 = 3564, 3582
++++-----	-----	--+---+-	-+-----+	-----	----+---+	350104, 3564 = 3557, 3564
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3501, 3564 = 3527, 3564
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3527, 3552 = 3527, 3582
++++-----	-----	--+---+-	-+-----+	-----	----+---+	350104, 3527 = 3527, 3557
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3501, 3527 = 3527, 3527
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3540N, 3550 = 3550, 356801
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3550, 3552 = 3550, 3582
++++-----	-----	--+---+-	-+-----+	-----	----+---+	350104, 3550 = 3550, 3557
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3501, 3550 = 3542, 3550 = 3550, 3550
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3540N, 3542 = 3542, 356801
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3542, 3552 = 3542, 3582
++++-----	-----	--+---+-	-+-----+	-----	----+---+	350104, 3542 = 3542, 3557
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3501, 3542 = 3542, 3542
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3540N, 3541 = 3541, 356801
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3541, 3552 = 3541, 3582
++++-----	-----	--+---+-	-+-----+	-----	----+---+	350104, 3541 = 3541, 3557
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3501, 3541 = 3541, 3541
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3552, 356802 = 356802, 3582
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3532, 3552 = 3532, 3582
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3501, 356802 = 350104, 3532 = 350104, 356802 = 3532, 3557 = 3557, 356802
++++-----	-----	--+---+-	-+-----+	-----	----+---+	3537, 3552 = 3537, 3582

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Lot-specific Information

+++++---	-----	-----+	-----+	-----	-----++-	350104, 3537 = 3537, 3557
+++++---	-----	-----+	-----+	---+-----	-----++-	3540N, 3549 = 3549, 356801
+++++---	-----	-----+	-----+	-----	+---+---+	3549, 3552 = 3549, 3582
+++++---	-----	-----+	-----+	-----	-----++-	350104, 3549 = 3549, 3557
+++++---	-----	-----+	-----	+-----	-----++-	3540N, 3571 = 356801, 3571
+++++---	-----	-----+	-----	+-----	+---+---+	3552, 3571 = 3571, 3582
+++++---	-----	-----+	-----	+-----	-----++-	350104, 3571 = 3557, 3571
+++++---	-----	-----+	-----	+-----	-----++-	3501, 3571 = 3571, 3571
+++++---	-----	-----+	-----	-++-----	-----++-	3540N, 3548 = 3548, 356801
+++++---	-----	-----+	-----	-+-----	+---+---+	3548, 3552 = 3548, 3582
+++++---	-----	-----+	-----	-+-----	-----++-	350104, 3548 = 3548, 3557
+++++---	-----	-----+	-----	-+-----	-----++-	3501, 3548 = 3548, 3548
+++++---	-----	-----+	-----	--++-----	-----++-	3535, 3540N = 3535, 356801
+++++---	-----	-----+	-----	--+-----	-----++-	3540N, 3562 = 3562, 356801
+++++---	-----	-----+	-----	--+-----	-----++-	3540N, 3563 = 3563, 356801
+++++---	-----	-----+	-----	--+-----	+---+---+	3540N, 3552 = 3540N, 3582 =
						3552, 356801 = 356801, 3582
+++++---	-----	-----+	-----	--+-----	--+---+	3540N, 3554 = 3554, 356801
+++++---	-----	-----+	-----	--+-----	---++---	3540N, 3578 = 356801, 3578
+++++---	-----	-----+	-----	--+-----	-----++-	350104, 3540N =
						350104, 356801 = 3540N, 3557
						= 3557, 356801
+++++---	-----	-----+	-----	--+-----	-----++-	3501, 3540N = 3501, 356801 =
						3540N, 3540N = 3540N, 356801
+++++---	-----	-----+	-----	---+-----	+---+---+	3535, 3552 = 3535, 3582
+++++---	-----	-----+	-----	---+-----	-----++-	350104, 3535 = 3535, 3557
+++++---	-----	-----+	-----	---+-----	-----++-	3501, 3535 = 3535, 3535
+++++---	-----	-----+	-----	-----+	+---+---+	3552, 3562 = 3562, 3582
+++++---	-----	-----+	-----	-----+	-----++-	350104, 3562 = 3557, 3562
+++++---	-----	-----+	-----	-----+	-----++-	350104, 3563 = 3557, 3563
+++++---	-----	-----+	-----	-----	++---+	3552, 3553N = 3553N, 3582
+++++---	-----	-----+	-----	-----	+---+---+	3552, 3554 = 3554, 3582
+++++---	-----	-----+	-----	-----	+---+---+	350104, 3552 = 350104, 3582
						= 3552, 3557 = 3557, 3582
+++++---	-----	-----+	-----	-----	+---+---+	3501, 3552 = 3501, 3582 =
						3552, 3552 = 3552, 3582
+++++---	-----	-----+	-----	-----	+---+---+	350104, 3553N = 3553N, 3557
+++++---	-----	-----+	-----	-----	--+---+	350104, 3554 = 3554, 3557
+++++---	-----	-----+	-----	-----	--+---+	3501, 3554 = 3554, 3554
+++++---	-----	-----+	-----	-----	---++---	350104, 3578 = 3557, 3578
+++++---	-----	-----+	-----	-----	-----++-	3501, 350104 = 3501, 3557 =
						350104, 350104 =
						350104, 3557
+++--+--	-+-----	-----+	-----	-----+	-----++-	3503, 3583 = 3575, 3583
+++--+--	-+-----	-----+	-----	-----	-----++-	3503, 3512 = 3512, 3575
+++--+--	-+-----	-----+	-----	-----	-----++-	3506, 3539 = 3534, 3559
+++--+--	-+-----	-----+	-----	-----+	-----++-	3503, 3581 = 3575, 3581
+++--+--	-+-----	-----+	-----	-----+	-----++-	3502, 3503 = 3502, 3575
+++--+--	-+-----	-----+	-----	-----	-----++-	3503, 3504 = 3504, 3575 =
						3506, 3534
+++--+--	-+-----	-----+	-----	-----+	-----++-	3534, 3588 = 3539, 3588
+++--+--	-+-----	-----+	-----	-----	-----++-	3504, 3539 = 350901, 3539
+++--+--	-+-----	-----+	-----	-----	-----++-	3512, 3539 = 3539, 3587
+++--+--	-+-----	-----+	-----	-----	-----++-	3504, 3534 = 350901, 3534
+++--+--	-+-----	-----+	-----	-----+	-----++-	3503, 3518 = 3518, 3556
+++--+--	-+-----	-----+	-----	-----	-----++-	3506, 3513 = 350901, 3513
+++--+--	-+-----	-----+	-----	-----	-----++-	3503, 3588 = 3556, 3588
+++--+--	-+-----	-----+	-----	-----	-----++-	3503, 3559 = 3559, 3575
+++--+--	-+-----	-----+	-----	-----	-----++-	3506, 3533 = 350901, 3533

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Lot-specific Information

+++--+	+	+	+	+	+	3506, 3536 = 350901, 3536
+++--+	+	+	+	+	+	3506, 3574 = 350901, 3574
+++--+	+	+	+	+	+	3503, 3531 = 3531, 3556
+++--+	+	+	+	+	+	3503, 350902 = 350902, 3556
+++--+	+	+	+	+	+	3506, 3556 = 350901, 3556
+++--+	+	+	+	+	+	3506, 3584 = 350901, 3584
+++--+	+	+	+	+	+	3506, 3570 = 350901, 3570
+++--+	+	+	+	+	+	3506, 3585 = 350901, 3585
+++--+	+	+	+	+	+	3506, 3565Q = 350901, 3565Q
+++--+	+	+	+	+	+	3506, 3555 = 350901, 3555
+++--+	+	+	+	+	+	3506, 3538 = 350901, 3538
+++--+	+	+	+	+	+	3503, 3506 = 3503, 350901 = 3506, 3575
+++--+	+	+	+	+	+	3503, 3539 = 3539, 3575
+++--+	+	+	+	+	+	3503, 3534 = 3534, 3575
+++--+	+	+	+	+	+	3503, 3513 = 3513, 3575
+++--+	+	+	+	+	+	3503, 3533 = 3533, 3533 = 3533, 3575
+++--+	+	+	+	+	+	3503, 3536 = 3536, 3536 = 3536, 3575
+++--+	+	+	+	+	+	3503, 3574 = 3574, 3574 = 3574, 3575
+++--+	+	+	+	+	+	3503, 3556 = 3556, 3556 = 3556, 3575
+++--+	+	+	+	+	+	3503, 3584 = 3575, 3584 = 3584, 3584
+++--+	+	+	+	+	+	3503, 3570 = 3570, 3570 = 3570, 3575
+++--+	+	+	+	+	+	3503, 3585 = 3575, 3585
+++--+	+	+	+	+	+	3503, 3565Q = 3565Q, 3565Q = 3565Q, 3575
+++--+	+	+	+	+	+	3503, 3555 = 3555, 3555 = 3555, 3575
+++--+	+	+	+	+	+	3503, 3538 = 3538, 3575
+++--+	+	+	+	+	+	3503, 3503 = 3503, 3575
+++--+	+	+	+	+	+	3543, 3583 = 3567, 3583
+++--+	+	+	+	+	+	3512, 3543 = 3512, 3567
+++--+	+	+	+	+	+	3543, 3581 = 3567, 3581
+++--+	+	+	+	+	+	3502, 3543 = 3502, 3567
+++--+	+	+	+	+	+	3504, 3543 = 3504, 3567
+++--+	+	+	+	+	+	3502, 3564 = 3504, 3564
+++--+	+	+	+	+	+	3543, 3559 = 3559, 3567
+++--+	+	+	+	+	+	3506, 3543 = 3506, 3567
+++--+	+	+	+	+	+	3502, 3583 = 3504, 3583 = 350901, 3583 = 3583, 3583
+++--+	+	+	+	+	+	3502, 3518 = 3504, 3518
+++--+	+	+	+	+	+	3502, 3588 = 3504, 3588
+++--+	+	+	+	+	+	3504, 3512 = 350901, 3512
+++--+	+	+	+	+	+	3512, 3512 = 3512, 3587
+++--+	+	+	+	+	+	3502, 3531 = 3504, 3531
+++--+	+	+	+	+	+	3502, 3581 = 3504, 3581 = 350901, 3581 = 3581, 3581
+++--+	+	+	+	+	+	3502, 350902 = 3504, 350902
+++--+	+	+	+	+	+	3502, 3502 = 3502, 3504 = 3502, 350901
+++--+	+	+	+	+	+	3504, 3504 = 3504, 350901
+++--+	+	+	+	+	+	3506, 3588 = 3559, 3588
+++--+	+	+	+	+	+	3506, 3559 = 350901, 3559
+++--+	+	+	+	+	+	3506, 3506 = 3506, 350901

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Lot-specific Information

+ - + + + + - -	+ - - - + - - -	- - - - - - - -	- - - + - - - -	- - - - - + - -	- - - - + + - +	3544, 3551 = 3544, 3558
+ - + + + + - -	+ - - - - - - -	- - - - - + - -	- - - + - - - -	- - - - - - - -	- - - - + + - +	3505, 3522 = 3522, 356802
+ - + + + + - +	+ - - - - - - -	- - - - - + - -	- - - + - - - -	- - - - + - - -	- - - - + + - +	3505, 3560 = 3551, 3560
+ - + + + + - +	- - - - - - - -	- - - - - + - -	- - - + - - - -	- - - - + - - -	- - - - + + - +	3532, 3560 = 3560, 356802
+ - + + + + - -	+ - + - - - - -	- - - - - + - -	+ - - + - - - -	- - - - + - - -	- - - - + + - +	3505, 3518 = 3518, 3551
+ - + + + + - -	+ - - - - + - -	- - - + - - + -	+ - - + - - - -	- - - - + - - -	- - - - + + - +	3505, 3588 = 3551, 3588
+ - + + + + - -	+ - - - - + - -	- - - - - + - -	- - - - - + - -	- - - - - - - -	- - - - + + - +	350901, 3566 = 3566, 3587
+ - + + + + - -	+ - - - - - - -	- - - - - + - -	+ - - + - - - -	- - - - + - - -	- - - - + + - +	3505, 350902 = 350902, 3551
+ - + + + + - -	+ - - - - - - -	- - - - - + - -	- - - + - - - -	- - - - - - - -	- - - - + + - +	3505, 350901 = 3505, 3587 = 350901, 3551
+ - + + + + - -	- - - - - - - -	- - - - - + - -	- - - + - - - -	- - - - - - - -	- - - - + + - +	350901, 356802 = 356802, 3587
+ - + + + - - +	+ - - - - - - -	- - - - - + - -	- - - + - - - -	- - - - - - - -	- - - - + + - +	3505, 3575 = 3551, 3575
+ - + + + - - +	- - - - - + - -	- - - - - + - -	- - - + - - - -	- - - - - + - -	- - - - + + - +	3543, 3575 = 3567, 3575
+ - + + + - - -	+ - - - - + - -	- - - - - + - -	- - - + - - + -	- - - - - + - -	- - - - + + - +	3543, 3566 = 3566, 3567
+ - + + + - - -	+ - - - - + - -	- - - - - - - -	- - - + - - - -	- - - - - + - -	- - - - + + - +	3551, 3586 = 3558, 3586
+ - + + + - - -	+ - - - - + - -	- + - - - + - -	- - - + - - - -	- - - - - + - -	- - - - + + - +	3543, 3572 = 3567, 3572
+ - + + + - - -	+ - - - - + - -	- - - - - + - -	- - - + - - - -	- - - - - + - -	- - - - + + - +	3505, 3543 = 3505, 3567
+ - + + + - - -	+ - - - - + - -	- - - - - + - -	- - - + - - - -	- - - - - - - -	- - - - + + - +	3505, 3558 = 3558, 356802
+ - + + + - - -	+ - - - - + - -	- - - - - - - -	- - - + - - - -	- - - + - - + -	- - - - + + - +	3551, 3579 = 3558, 3579
+ - + + + - - -	+ - - - - + - -	- - - - - - - -	- - - + - - - -	- - - - - + - -	- - - - + + - +	3543, 3551 = 3543, 3558 = 3551, 3567 = 3558, 3567
+ - + + + - - -	+ - - - - + - -	- - - - - - - -	- - - + - - - -	- - - - - - - -	- - - - + + - +	3532, 3558 = 3551, 3558 = 3558, 3558
+ - + + + - - -	+ - - - - + - -	- - - - - + - -	- - - + - - + -	- - - - - - - -	- - - - + + - +	3505, 3566 = 3532, 3566 = 3551, 3566 = 3566, 356802
+ - + + + - - -	+ - - - - - - -	- + - - - + - -	- - - + - - - -	- - - - - - - -	- - - - + + - +	3505, 3572 = 3551, 3572 = 356802, 3572
+ - + + + - - -	+ - - - - - - -	- - - - - + - -	+ - - + - - - -	- - - - - + - -	- - - - + + - +	3505, 3564 = 3551, 3564
+ - + + + - - -	+ - - - - - - -	- - - - - + - -	- - - + + - - -	- - - - - - - -	- - - - + + - +	3505, 3537 = 3537, 3551
+ - + + + - - -	+ - - - - - - -	- - - - - + - -	- - - + - - - -	- - + - - - - -	- - - - + + - +	3505, 356801 = 3551, 356801
+ - + + + - - -	+ - - - - - - -	- - - - - + - -	- - - + - - - -	- - - - - - - -	- + - - + + - +	3505, 3553N = 3551, 3553N
+ - + + + - - -	+ - - - - - - -	- - - - - + - -	- - - + - - - -	- - - - - - - -	- - - - + + - +	3505, 3505 = 3505, 3532 = 3505, 3551 = 3505, 356802 = 3551, 356802
+ - + + + - - -	+ - - - - - - -	- - - - - - - -	- - - + - - - -	- - - - - - - -	- - - - + + - +	3532, 3551 = 3551, 3551
+ - + + + - - -	- - - - - + - -	- - - - - + - -	- - - + + - - -	- - - - - + - -	- - - - + + - +	3537, 3543 = 3537, 3567
+ - + + + - - -	- - - - - + - -	- - - - - + - -	- - - + - - - -	- - + - - - + -	- - - - + + - +	3543, 356801 = 3567, 356801
+ - + + + - - -	- - - - - + - -	- - - - - + - -	- - - + - - - -	- - - - - + - -	- + - - + + - +	3543, 3553N = 3553N, 3567
+ - + + + - - -	- - - - - + - -	- - - - - + - -	- - - + - - - -	- - - - - + - -	- - - - + + - +	3543, 356802 = 3567, 356802
+ - + + + - - -	- - - - - + - -	- - - - - - - -	- - - + - - - -	- - - - - + - -	- - - - + + - +	3532, 3543 = 3532, 3567
+ - + + + - - -	- - - - - - - -	- - - - - + - -	- - - + - - - -	- - - - - - - -	- - - - + + - +	3532, 356802 = 356802, 356802
+ - - + + + - -	+ - - - - + - -	- - - - - - - -	- - - + - - - -	- - - - - + - -	- - - - + + - +	3522, 3543 = 3522, 3567
+ - - + + + - -	- - - - - + - -	- - - - - - - -	- - - + - - - -	- - - - - + - -	- - - - + + - +	3543, 3544 = 3544, 3567
+ - - + + + - -	- - - + - - - -	- - - - - + - -	+ - - + - - - -	- - - - - + - -	- - - - + + - +	3518, 3543 = 3518, 3567
+ - - + + + - -	- - - + + - - -	- - - + - - + -	+ - - + - - - -	- - - - - + - -	- - - - + + - +	3543, 3588 = 3567, 3588
+ - - + + + - -	- - - + - - - -	- - - - - + - -	+ - - + - - - -	- - - - - + - -	- - - - + + - +	350902, 3543 = 350902, 3567
+ - - + + + - -	- - - + - - - -	- - - - - + - -	- - - + - - - -	- - - - - + - -	- - - - + + - +	350901, 3543 = 350901, 3567
+ - - + + + - -	- - - - - - - -	- - - - - + - -	+ - - - - - - -	- - - - - + - -	- - - - + - - +	350901, 3564 = 350902, 3564
+ - - + + - - -	- - - - - + - -	- - - - - - - -	- - - + - - - -	- - - - - + - -	- - - - + + - +	3543, 3586 = 3567, 3586
+ - - + + - - -	- - - - - + - -	- - - - - + - -	+ - - + - - - -	- - - - - + - -	- - - - + + - +	3543, 3564 = 3564, 3567
+ - - + + - - -	- - - - - + - -	- - - - - - - -	- - - + - - - -	- - - + - - + -	- - - - + + - +	3543, 3579 = 3579, 3579
+ - - + + - - -	- - - - - + - -	- - - - - - - -	- - - + - - - -	- - - - - + - -	- - - - + + - +	3543, 3567 = 3567, 3567
+ - - + + - - +	- - - - - - - -	- - - - - + - -	- - - - - - - -	- - - - - + - -	- - - - + + - +	3560, 3560 = 3560, 3587
+ - - + + - - -	- - - + - - - -	- - - - - + - -	+ - - - - - - -	- - - - - + - -	- - - - + - - +	350901, 3518 = 350902, 3518 = 3518, 3518
+ - - - + - - -	- - - - - + - -	- - - + - - + -	+ - - - - - - -	- - - - - + - -	- - - - + + - +	3531, 3588 = 3587, 3588

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Lot-specific Information

+---+---	-----+--	---+---+--	+-----	-----+--	-----+---+	350901, 3588 = 350902, 3588 = 3588, 3588
+---+---	-----	---+---+--	+-----	-----+--	-----+---+	350901, 3531 = 350902, 3531
+---+---	-----	---+---+--	+-----	-----+--	-----+---+	3531, 3531 = 3531, 3587
+---+---	-----	-----+--	+-----	-----+--	-----+---+	350901, 350902 = 350902, 350902
-+++---+	---+---+--	---+---+--	-----+	-----	-----+---+	3513, 3569 = 3513, 3576
-+++---	+---+---+--	---+---+--	-----+	-----	-----+---+	3516, 3569 = 3516, 3576
-+++---	---+---+--	---+---+--	-----+	-----	-----+---+	3569, 3580 = 3576, 3580
-+++---	---+---+--	-----+--	-----	-----	-----+---+	3510, 3580 = 3580, 3580
-+++---	---+---+--	---+---+--	-----+	-----	-----+---+	3510, 3569 = 3510, 3576 = 3569, 3569 = 3569, 3576
-+++---	-----+	-----+--	-----	+-----	-----+---+	3519, 3547 = 3547, 3547
-+++---	-----	---+---+--	-----+	-----	-----+---+	3525, 3525 = 3525, 3549

3501 = 350101-350103 and 350105-350107

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Lot-specific Information

SPECIFICITY TABLE

HLA-B*35 SSP subtyping

Specificities and sizes of the PCR products of the 48 primer mixes used for HLA-B*35 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*35 alleles ³	Other amplified Class I alleles ⁴
1^{5,9}	95 bp	800 bp	350101-350902, 3511, 3512, 351401-3515, 3517, 3518, 352001-3524, 3527, 3529-3545, 3548, 3550-3562, 3564-356802, 3570-3572, 3574, 3575, 3577-3579, 3581-3588	0832, 180101-1811, 1813-1815, 1817N-1829, 3806, 3807, 391901-391902, 4406, 510101-512402, 5126-5146, 5148-5155, 530101-5316, 7801-7804
2	150 bp	1070 bp	350101-350402, 3506-350803, 3510-3517, 3519-3521, 3523-3530, 3533-3536, 3538-3542, 3545-3550, 3552, 3554-3557, 3559, 3561-3563, 3565Q, 3569-3571, 3574, 3576-3578, 3580-3585	1301, 1306, 1307N, 1312, 1313, 1317, 1320, 1502, 1513, 1520, 1521, 1525, 1536, 1544, 1562, 1577, 1580, 1585, 1588, 1589, 9506, 9512, 9521, 9539, 9544, 1822, 2719, 2730, 370101-370104, 3703N-3706, 3708, 3710, 3711, 3713, 3942, 4028, 44020101-4414, 4416, 4417, 4419N, 4421-4430, 4432-4440, 4442-4446, 4448-4452N, 4455-4460, 4802, 5104, 5142, 5146, 530101-5306, 5308-5313, 5315, 5316, 5514, 5609, 5611, 5612, 570101-5710, 5712, 5714-5716, 580101-580102, 5804, 5805, 5809-5815, 5817, 8301
3⁵	115 bp	800 bp	350101-350107, 3503, 3505, 3507-350803, 3510, 3511, 3513, 351401, 3515-3517, 3519-3521,	072202, 0807, 1520, 180101-1815, 1817N-1819, 1822-1825, 1827-1829, 3709, 3907, 3915, 3929, 3943, 4104, 4209, 4417, 4445, 4451, 4613, 4802, 4904, 5137, 5145, 5212, 530101-

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			3523-3530, 3532-3542, 3545-3558, 3561-3563, 3565Q, 3566, 356801-3572, 3574-3578, 3580, 3582, 3584, 3585	530102, 530104-5306, 5308-5316, 5409, 5514, 5523, 5527, 5609, 5611, 5618, 5714, 580101-5802, 5804-5807, 5809-5817
4	275 bp	1070 bp	350101-350107, 3505, 3507-350803, 3510, 3511, 351401-3517, 3519-3521, 3523-3530, 3532, 3535, 3537, 3540N-3543, 3545-3554, 3557, 3558, 3561-3564, 3566-3569, 3571, 3572, 3576-3580, 3582, 3586	0709, 0711, 0717, 0828, 0835, 1304, 1310, 15010101-150104, 150106-1508, 151101-1516, 1518-1521, 1523-1529, 1531-1536, 1538-1540, 1543, 1544, 1546, 1547, 1549-1557, 1560-1562, 1564-1572, 1574-1576, 1578-1582, 1584, 1585, 1587-1589, 1591-1598, 9501-9529, 9531, 9532, 9534-9536, 9538-9546, 180101-1815, 1817N-1825, 1827-1829, 2741, 3907, 3943, 4003, 4020, 4038, 4052, 4059, 4060, 4209, 4417, 4443, 460101-4610, 4612-4614, 4802, 4814, 4904, 4905, 5137, 5145, 530101-5303, 5305, 5306, 5308-5316, 5406, 5409, 5514, 5523, 5603, 5609, 5618, 570101-570103, 5706, 5708, 5710, 5711, 5713-5716, 580101-5802, 5804-5807, 5809-5817
5	280 bp	1070 bp	350201-350202, 350401-350402, 3506, 350901-350902, 3512, 3518, 3522, 3531, 3544, 3559, 3560, 3581, 3583, 3587, 3588	070501-0706, 0732, 0734, 0740, 0753, 080101-0806, 0808N-0813, 0815-0827, 0829-0836, 1301-1303, 1306-1309, 1311-1321, 1509, 1530, 1542, 1548, 1558, 1573, 1583, 1586, 1826, 2707, 2711, 2720, 2724, 2727, 2733, 3712, 380101, 380201-3817, 39010101-39010102L, 390103-390602, 3908-3914, 3916, 3918-3920, 3922-3924, 3926-3928, 3930-3942, 400101-400203, 4004-4008, 4010-4016, 4019, 4021-4023, 4025-4030, 4034-4040, 4043, 4045-4051, 4053-4058, 4061-4088, 4101-410302, 4105-4108, 4201, 4202, 4204-

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Lot-specific Information

				4208, 4410, 4414, 4431, 4611, 480101-480102, 480301-4807, 4809-4816, 4818, 4819, 510101-510202, 5103-5116, 5119-512402, 5126-5136, 5138-5141N, 5143, 5144N, 5146, 5148-5155, 520101-5211, 5401-5405N, 5407, 5408N, 5410-5413, 550101-5505, 5507-5513, 5515-5522, 5524-5526, 5528-5530, 5601, 5602, 5604-5608, 5610, 5612-5617, 5619N-5623, 5702-570302, 5707, 5709, 5712, 5808, 5901, 5902, 670101-6702, 7801-7805, 8101-8104N, 8201, 8202
6⁵	85 bp	1070 bp	350201-350202, 350401-350402, 3512, 3522, 3534, 3539, 3544, 3581, 3583	1313, 1509, 1510, 1530, 1537, 1545, 1548, 1563, 1583, 1590, 1599, 1826, 2727, 3914, 3929, 4026, 4028, 4035, 4087, 4812, 510101-510902, 5111N, 5112, 5116, 5118-5123, 5126-5136, 5138-5141N, 5143, 5144N, 5146, 5148-5155, 520101-5212, 5404, 5517, 5527, 5528, 560501-5606, 5612, 5615, 5621, 5702-570302, 5705, 5707, 5709, 5712, 5808, 7801-7805
7⁶	325 bp	1070 bp	3523	1506, 152701-152702, 1584, 9509, 1827, 4410, 47010101-4703, 8201, 8202
8	275 bp	1070 bp	3503, 3506, 3513, 3533, 3536, 3538, 3555, 3556, 3559, 3560, 3565Q, 3570, 3574, 3575, 3584, 3585	1301-1303, 1306-1309, 1311, 1312, 1314-1320, 1542, 1558, 1573, 1586, 9533, 380101, 380201-3817, 39010101-39010102L, 390103-390602, 3908-391302, 3915, 3916, 3918-3920, 3922-3924, 3926-3928, 3930-3942, 4036, 4048, 4071, 4077, 4086, 4206, 4410, 4508, 4611, 4807, 4817, 511301-511302, 5115, 5304, 5401-5403, 5405N, 5407, 5408N, 5410, 5412, 5413, 550101-5503, 5505, 5507, 5509-5513, 5515, 5516, 5518,

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Lot-specific Information

				5519, 5521, 5522, 5524-5526, 5529, 5530, 5601, 5602, 5604, 5607, 5608, 5610, 5611, 5613, 5614, 5616, 5617, 5619N, 5620, 5622, 5623, 5901, 670101-6702, 8201, 8202
9^{5,7}	140 bp	800 bp	3505, 3516, 3517, 3522, 3530, 3551, 3558, 3566, 3572	1405, 1507, 1545, 1555, 1568, 9526, 1814, 1822, 2732, 3903, 3914, 3924, 3929, 3937, 4035, 4071, 4454, 4612, 4812, 4814 5314
10^{5,10}	140, 240 bp	1070 bp	3507, 3583	
11^{8,9}	225 bp	800 bp	350801-350803, 3518, 3545, 3561, 3580	0712, 0714, 071801-071802, 4404, 442801-442802, 4456N, 5311, 5316, 5702, 5704, 5705, 5712, 5713, Cw*0328, Cw*0510, Cw*1508
12⁵	95 bp	1070 bp	3510, 3513, 3516, 3528, 3569, 3580	1812, 370101-3705, 3707, 3709-3713, 4903, 520101- 520104, 5203-5212, 7805
13	170 bp	800 bp	3511, 351401- 351402, 3521, 3543, 3544, 3558, 3567, 3579, 3586	070201-0724, 0726-0747, 0749N, 0750, 0752-0764, 0806, 0820, 1316, 1320, 1401-1408, 15010101-1504, 1506-1519, 1521, 1523-1530, 1532-1540, 1542-1547, 1549, 1550, 1553, 1554, 1556-1558, 1560-1574, 1576-1582, 1585, 1587, 1589, 1590, 1592-1599, 9501-9504, 9506, 9508-9510, 9512, 9513, 9515-9522, 9525-9529, 9531- 9535, 9537-9544, 9546, 1815, 1819, 1821, 270401-270402, 2706, 2710, 2715, 2718, 2720, 2721, 2724, 2725, 2740, 3707, 3713, 3810, 3918, 3935, 3936, 4005, 4015, 4016, 4023, 4026, 4028, 4032, 4051, 460101- 4605, 4607N, 4608, 4610, 4612, 4614, 4805, 4808, 4815, 4901-4905, 5001, 5002, 5004, 510101-5104, 5106, 5107, 5111N-5114, 5116-5118, 5121- 512402, 5126-5130, 5132- 5139, 5141N, 5143, 5145, 5146, 5148-5152, 5155,

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Lot-specific Information

				520101-5202, 5204-5209, 5211, 5212, 5306, 5308, 5406, 550101-550104, 5503, 5505, 5509, 5511, 5514, 5515, 5517, 5521, 5524, 5525, 5528, 5529, 5603, 560501-5606, 5621, 5709, 5713, 5806, 5808, 7801-7803, 7805
14^{5,8,9}	75 bp	800 bp	3512, 3539, 3559, 3561, 3588	0714, 071801-071802, 1301, 1306, 1307N, 1312, 1313, 1317, 1320, 1321, 1502, 1513, 1521, 1525, 1536, 1544, 1577, 1580, 1588, 1589, 9506, 9512, 9521, 9539, 9544, 2719, 2730, 3942, 4004, 4028, 4030, 4034, 4064, 4068, 44020101-4409, 4411-4414, 4416, 4417, 4419N, 4421-4430, 4432-4435, 4437-4440, 4442-4446, 4448-4453, 4455-4460, 5104, 5142, 5146, 5514, 5612, 570101-5704, 5706-5710, 5712-5716, 8301
15⁵	135 bp	1070 bp	3515, 3533, 3566, 3586	1301-130204, 1307N-1311, 1313-1320, 1540, 1547, 1549, 1552, 9514, 9517, 9524, 9538, 1810, 2701-270402, 270502-2706, 2708-2710, 2712-2714, 2716-2719, 2721, 2723, 2726, 2727, 2729-2732, 2735, 2737, 2739-2742, 3702, 4035, 4077, 4087, 4416, 4421, 47010101-4705, 4812, 4814, 5116, 5131, 5134, 5208, 5509, 5522, 5524
16^{5,11}	95, 190 bp	1070 bp	3519, 3547, 3577	9543, 4008, 4025, 4068, 4412
17^{8,12}	180, 380 bp	1070 bp	3526, 3536	3904
18^{5,8}	105 bp	1070 bp	352001-352002, 3528, 3572	180101-1806, 1808-1815, 1817N-1828, 370101-370102, 370103 ^{weakly} , 370104-3705, 3707-3713, 4903, 5107, 520101-520104, 5203-5205, 5207-5212, 5309, 7805
19^{8,9}	230 bp	1070 bp	3529, 3569, 3574, 3576	0729, 080101-080105, 0802 ^{weakly} , 0804-0822, 0824-0836, 1561, 1570, 1576, 9501, 3904, 4043, 4073, 4506,

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Lot-specific Information

				460101-4604, 4606-4614, 5120 ^{weakly} , 5401, 5403-5411, 5412 ^{weakly} , 5413, 550101-5505, 5507-5509, 5511-5517, 5519-5530, 5601-5606, 5607 ^{weakly} , 5608-5620, 5621 ^{weakly} , 5622, 7801, 7803, 8301
20	200 bp	1070 bp	3531, 3588	070501-0706, 0732, 0740, 0753, 1301-130204, 1307N-1309, 1311, 1313-1321, 2707, 2711, 2720, 2724, 2727, 2733, 400101-400203, 4004, 40060101-4008, 4010-4016, 4019, 4021-4023, 4025, 4027, 4029, 4030, 4034-4038, 4040, 4043, 4045-4050, 4053-4058, 4061, 4062, 4064-4070, 4072-4088, 4406, 4431, 480101-480102, 480301-4807, 4809-4816, 4818, 4819, 4903, 510101, 510103-510108, 510201, 510203-5104, 5106-510901, 5110-5114, 5116-512402, 5126-5146, 5148, 5149, 5151-5153, 5155, 520102, 520104-5203, 520601-520602, 5208, 5209, 5306, 5509, 5522, 5524, 5808, 8101-8104N
21⁸	265 bp	800 bp	3525	180101-1803, 1805-1815, 1817N-1828, 370101-3713, 5812, 8101, 8301
22^{5,13}	90, 270 bp	1070 bp	3521, 3524, 3546, 3581	1502, 1508, 151101-151103, 1513, 1515, 1521, 1531, 1544, 1555, 1588, 1589, 9512, 9521, 9539, 9544, 1822, 3704, 4028, 5104, 5146, 5302, 5306, 5714, 5809
23	190 bp	800 bp	350101-3510, 3513, 3515, 3518-352002, 3523-3530, 3533-3537, 3540N-3542, 3545-3550, 3552-3557, 3560, 3563-3566, 356801-3572, 3574-3578, 3580-3585, 3588	1301-1304, 1306-1309, 1311-1315, 1317-1319, 1520, 1586, 1822, 2714, 4004, 4024, 4059, 4060, 4068, 4070, 4410, 4611, 4802, 4817, 5115, 530101-5305, 5309-5316, 5401-5405N, 5407, 5408N, 5410-5413, 550201-550202, 5507, 5510, 5512, 5513, 5516, 5518, 5519, 5522, 5523, 5526, 5527, 5530,

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Lot-specific Information

				5601, 5602, 5607-5611, 5614-5617, 5619N, 5620, 5622, 5623, 5705, 580101-5802, 5804, 5807, 5809-5817, 5901, 5902, Cw*0203, Cw*0512
24	425 bp	1070 bp		2702, 2703, 270502-270510, 2707, 2709, 2710, 2713, 2714, 2716, 2717, 2719, 2727-2730, 2732, 2734, 2735, 2737-2739, 2741, 2742 ^{weakly} , 370101-3704, 3705 ^{weakly} , 3706-3709, 3712, 3713, 4013, 4019 [?] , 4406, 4425, 4450, 47010101-47010102, 4705, 510101-512402, 5126-5146, 5148, 5149, 5151-5153, 5155, 520101-5212, 530101-5308, 5310, 5314-5316, 570101-5711, 5713-5716, 580101-5802, 5804-5816
25^{5,7,14}	135, 210 bp	800 bp	350902, 3518, 3527, 3531, 3556, 3564, 3588	070201-0764, 080102, 0806, 0820, 1321, 1533, 9507, 9516, 9541, 1821, 2701-270402, 270502-2721, 2723-2742, 3702, 3705, 3707, 3709, 400101-4013, 401403-4016, 4018-4025, 4027, 4029-4040, 4042-4070, 4073-4076, 4078-4086, 4088, 4108, 4431, 4606, 47010101-4705, 480101-480102, 480301-4811, 4813, 4815-4819, 510109, 5110, 512402, 5411, 5504, 5508, 5713, 8101-8104N
26¹⁵	210, 370 bp	800 bp	3542, 3550, 3584	0708, 0732, 0738, 1807, 1829, 2723, 3806, 3807, 4008, 4013, 4068, 4806
27^{5,8}	110 bp	1070 bp	3541	
28	230 bp	800 bp	3505, 3522, 3532, 3543, 3544, 3551, 3558, 3567, 356802, 3572, 3579	0720, 0724, 0760, 0821, 0825, 15010101-150104, 150106-150108, 1503, 1505, 1507-151102, 1512 ^{weakly} , 1514, 1515, 15170101-1518, 1519 ^{weakly} , 1523, 1524, 1528-1531, 1533-1535, 1537-1539, 1543, 1545, 1546, 1548, 1551, 1553-1558, 1560, 1561, 1563-1566, 1568,

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Lot-specific Information

				1570-1576, 1578, 1579N, 1581, 1582, 1587, 1590-1592, 1594N, 1596-1599, 9501-9505, 9507, 9508, 9511N, 9513, 9515, 9516, 9518-9520, 9522, 9523, 9525-9528, 9531-9536, 9540-9543, 9545, 9546, 3932, 4005, 4026, 4063, 4071, 4441, 4454, 460101-4602, 4604, 4605, 4608-4610, 4612-4614, 5106, 5145, 5314, 5406, 5508, 5602-5604, 5816, Cw*0305, Cw*0325, Cw*0327
29⁵	105 bp	1070 bp	3537	1304, 1504, 1516, 1567, 1595, 9537, 390601-390602, 3933, 3934, 4086, 4502, 4904, 4905, 511301-511302, 5137, 5513, 5523, 5622, 7301
30^{5,8,16}	115, 325 bp	800 bp	3515, 3525, 3526, 3533, 3549, 3566	1301-130204, 1307N-1311, 1313-1321, 1810, 2701-270402, 270502-2721, 2723-2742, 401401, 4046 [?] , 4072, 4077, 4416, 4421, 4440, 4444, 4812, 5116, 5131, 5134, 5208, 5509, 5522, 5524, 8101, 8301, Cw*0110^{weakly}, Cw*0715^{weakly}
31^{8,17}	170, 210 bp	1070 bp	3525, 3550, 3584	0708, 0732, 0738, 080101-0803, 0805-0816, 0818-0825, 0827-0836, 1529, 1807, 1829, 2723, 3806, 3807, 4008, 4013, 4068, 4806
32^{5,9}	170 bp	1070 bp	3529, 3569, 3576	070201-070202, 070204-0715, 0717-0726, 0728-0735, 0739-0749N, 0751-0755, 0757-0764, 1570, 1576, 9501, 1803 ^{weakly} , 391902, 4201, 4202, 4204-4209, 460101, 4603-4614, 5603, 5606, 7301, 7801, 7803, 8101-8104, 8301
33^{5,18}	70, 205 bp	1070 bp	3545, 3547, 3571	0720, 1514, 1546, 1591, 9506, 9531, 4410, 4414, 4417, 4431, 4443, 4445, 4451, 5123, 5707, 5807, 8201, 8202
34	230 bp	800 bp	3548	5307
35^{8,19}	150, 365 bp	1070 bp	3540N, 356801	
36^{5,20}	110,	800 bp	3535, 3570, 3579	3942

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Lot-specific Information

	180, 230 bp			
37⁵	85 bp	1070 bp	3560	1301-1303, 1306-1309, 1311, 1312, 1314-1320, 1542, 1573, 1586, 3917, 4071, 4410, 4415, 4418, 4501, 4504-4508, 4611, 4901-4903, 5001, 5002, 5004, 5115, 5401-5403, 5405N, 5407, 5408N, 5410, 5412, 5413, 550101-5503, 5505, 5507, 5509-5512, 5515, 5516, 5518, 5519, 5521, 5522, 5524-5526, 5529, 5530, 5601, 5602, 5604, 5607, 5608, 5610, 5613, 5614, 5616, 5617, 5619N, 5623, 5901, 8201, 8202
38^{8,21}	210, 295 bp	1070 bp	350201-350202, 350902, 3518, 3531, 3564, 3581, 3583, 3588	070201-0764, 080102, 0806, 0820, 1321, 1533, 9507, 9516, 9541, 1821, 2701-270402, 270502-2721, 2723-2742, 3702, 3707, 3709, 400101-4013, 401403-4016, 4018-4025, 4027, 4029-4040, 4042-4070, 4073-4076, 4078-4086, 4088, 4108, 4431, 4606, 47010101-4705, 480101-480102, 480301-4811, 4813, 4815-4819, 510109, 5110, 512402, 5411, 5504, 5508, 5713, 8101-8104N
39⁵	115 bp	1070 bp	351401-351402, 3543, 3544, 3562, 3567, 3579, 3586	15010101-150104, 150106-150108, 1504, 1507, 1508, 151101-1512, 1514, 1515, 1519, 1524, 1526N-1528, 1530, 1532, 1534, 1535, 1538, 1543, 1545, 1546, 1550, 1553, 1554, 1556-1558, 1560, 1563, 1566, 1568, 1570, 1571, 1573, 1575-1577, 1579N, 1581, 1582, 1585, 1587, 1592, 1594N, 1596, 1597, 9501, 9502, 9504, 9505, 9509-9511N, 9513, 9517, 9518, 9520, 9522, 9525, 9526, 9528, 9529, 9535, 9537, 9540, 9542-9546, 1819, 2725, 3936, 460101-4602, 4604, 4605, 4607N, 4609, 4610, 4612, 4614, 5406, 5521, 5603

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Lot-specific Information

40	185 bp	1070 bp	3563	1553, 2708, 2712, 2718, 2726, 2733, 2740, 2742, 400101-4009, 4011, 401401-4016, 4018, 4020, 4022N-4040, 4042-4046, 4048-4075, 4077-4082, 4084-4088, 4101-4104, 4106-4108, 4409, 4446, 4501-4508, 4702, 5001, 5002, 5004
41^{5,22}	105, 135 bp	1070 bp	3552, 3582, 3585	391901-390102, 5122, 7803
42²³	155, 250 bp	800 bp	3553N, 3565Q	
43	205 bp	1070 bp	3554	
44^{5,24}	110, 145, 300 bp	1070 bp	3555, 3578	1809, 3710, 5154, 5309, 5311-5313
45²³	165 bp	800 bp	350101-3530, 3532-3542, 3544, 3545, 3547-3556, 3558, 3559, 3561-3572, 3574-3578, 3580-3586, 3588	1520, 4802, 510101-512402, 5126-5146, 5148-5155, 520101-520602, 5208-5212, 530101-5316, 5621, 580101-5802, 5804-5810N, 5812-5817, 7801-7805, 8103
46^{7,8,23,26}	165, 380 bp	1070 bp	350104, 3505, 350803, 3512, 3517, 3530, 3531, 3543, 3546, 3551, 3557, 3558, 3560, 3566, 3567, 356802, 3579, 3586, 3587	070201-0757, 0759-0764, 080101-0836, 1301-1304, 1306-1321, 1401-1408, 15010101-1519, 1521, 1523-1540, 1542-1558, 1560-1599, 9501, 9503-9529, 9531-9546, 180101-1815, 1817N-1829, 2701-270402, 270502-2721, 2723-2742, 370101-3713, 380101-3817, 39010101-39010102L, 390103-3920, 3922-3943, 400101-4016, 4018-4040, 4042-4088, 4101-4108, 4201, 4202, 4204-4209, 44020101-4460, 4501-4508, 460101-4614, 47010101-4705, 480101-480102, 480301-4819, 4901-4905, 5001, 5002, 5004, 5106, 5142, 5207, 5314, 5401-5413, 550101-550102, 550104-5505, 5507-5530, 5601-5620, 5622, 5623, 570101-5716, 5811, 5901, 5902, 670101-6702, 8101, 8102, 8104N, 8201, 8202, 8301

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Lot-specific Information

47	160 bp	800 bp	3538	4206, 5613, 8201, 8202, Cw*070401-070402 ^{weakly} Cw*0711 ^{weakly} , Cw*0712 ^{weakly} , Cw*0745
48	395 bp	1070 bp	350101-3519, 3521- 3525, 3527, 3529- 3562, 3564-3571, 3574, 3575, 3577, 3579-3581, 3583, 3584, 3586-3588	1807, 1829, 2723, 4008, 4013, 4068 ² , 4406, 510101-5106, 5108-5121, 5123-512402, 5126-5146, 5148-5155, 520601-520602, 530101-5308, 5310-5316, 7801-780202, 7804

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*35 SSP typings.

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

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

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

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

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

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

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*35 subtyping.

In addition, wells number 3, 7, 9, 11, 13, 14, 21, 23, 25, 26, 28, 30, 34, 36, 42, 45 and 47 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.

³For several HLA-B alleles first exon 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 the first exon are conserved within allelic groups.

⁴Due to the sharing of sequence motifs between HLA-B alleles many non-HLA-B*35 alleles will be amplified by the HLA-B*35 primer mixes. In addition, the Cw*0110 and Cw*0715 alleles will be weakly amplified by primer mix 30, the Cw*0203 and Cw*0512 alleles by primer mix 23, the Cw*0305, Cw*0325 and Cw*0327 alleles by primer mix 28, the Cw*0328, Cw*1510 and Cw*1508 alleles by primer mix 11, the Cw*0510 and the Cw*1508 alleles by the primer mix 11 and the Cw*070401-070402, the Cw*0711, Cw*0712 and the Cw*0745 alleles weakly by primer mix 47.

⁵Short specific PCR fragments are less intense and not as sharp as longer specific bands.

⁶Primer mix 7 may faintly amplify the B*44 alleles.

⁷Primer mixes 9, 25 and 46 may give rise a primer oligomer artefact.

⁸Primer mixes 11, 14, 17, 18, 19, 21, 27, 30, 31, 35, 38 and 46 have a tendency of giving rise to nonspecific amplifications.

⁹Primer mixes 1, 11, 14, 19 and 32 may yield less specific PCR products than the other B*35 primer mixes.

¹⁰Primer mix 10: Specific PCR fragment of 140 bp in the B*3583 allele. Specific PCR fragment of 240 bp in the B*3507 allele.

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¹¹Primer mix 16: Specific PCR fragment of 95 bp in the B*9543, 3519, 3547 and B*4008, 4025, 4068 and 4412 alleles. Specific PCR fragment of 190 bp in the B*3577 allele.

¹²Primer mix 17: Specific PCR fragment of 180 bp in the B*3526 and B*3904 alleles. Specific PCR fragment of 380 bp in the B*3536 allele.

¹³Primer mix 22: Specific PCR fragment of 90 bp in the B*3546 and the B*1502, 1508, 151101-151103, 1513, 1515, 1521, 1531, 1544, 1555, 1588, 1589, 9512, 9521, 9539 and 9544 alleles. Specific PCR fragment of 270 bp in the B*3521, 3524, 3581 and the B*1822, 3704, 4028, 5104, 5146, 5302, 5306, 5714 and 5809 alleles.

¹⁴Primer mix 25: Specific PCR fragment of 135 bp in the B*3527 and 3556 and the B*3705 alleles. Specific PCR fragment of 210 bp in the other alleles amplified by this primer mix.

¹⁵Primer mix 26: Specific PCR fragment of 210 bp in the B*3550, 3584 and B*0708, 0732, 0738, 3806, 3807 and 4806 alleles. Specific PCR fragment of 370 bp in the B*3542 and B*1807, 1829, 2723, 4008, 4013 and 4068 alleles.

¹⁶Primer mix 30: Specific PCR fragment of 115 bp in the B*3515, 3533 and 3566 and B*1301-130204, 1307N-1311, 1313-1321, 1810, 401401, 4046[?], 4072, 4077, 4416, 4421, 4440, 4444, 4812, 5116, 5131, 5134, 5208, 5509, 5522, 5524, Cw*0110^w and Cw*0715^w alleles. Specific PCR fragment of 325 bp in the B*3525, 3526 and 3549 and B*2701-270402, 270502-2721, 2723-2742, 8101 and 8301 alleles.

¹⁷Primer mix 31: Specific PCR fragment of 170 bp in the B*3525 and B*0708, 0732, 0738, 080101-0803, 0805-0816, 0818-0825, 0827-0836, 1529, 1807, 1829, 3806, 3807 and 4806 alleles. Specific PCR fragment of 210 bp in the B*3550, 3584 and B*2723, 4008, 4013 and 4068 alleles.

¹⁸Primer mix 33: Specific PCR fragment of 70 bp in the B*3547 and B*1546 and 9506 alleles. Specific PCR fragment of 205 bp in the B*3545, 3571 and B*0720, 1514, 1591, 9531, 4410, 4414, 4417, 4431, 4443, 4445, 4451, 5123, 5707, 5807, 8201 and 8202 alleles.

¹⁹Primer mix 35: Specific PCR fragment of 150 bp in the B*3540N allele. Specific PCR fragment of 365 bp in the B*356801 allele.

²⁰Primer mix 36: Specific PCR fragment of 110 bp in the B*3579 allele. Specific PCR fragment of 180 bp in the B*3570 allele. Specific PCR fragment of 230 bp in the B*3535 and B*3942 alleles.

²¹Primer mix 38: Specific PCR fragment of 295 bp in the B*350201-350202 alleles. Specific PCR fragment of 210 bp in the other alleles amplified by this primer mix.

²²Primer mix 41: Specific PCR fragment of 105 bp in the B*3582, 3585 and B*391901-391902, 5122 and 7803 alleles. Specific PCR fragment of 135 bp in the B*3552 allele.

²³Primer mix 42: Specific PCR fragment of 155 bp in the B*3553N allele. Specific PCR fragment of 250 bp in the B*3565Q allele.

²⁴Primer mix 44: Specific PCR fragment of 110 bp in the B*3578 allele. Specific PCR fragment of 145 bp in the B*1809, 3710, 5154, 5309 and 5311-5313 alleles. Specific PCR fragment of 300 bp in the B*3555 allele.

²⁵Primer mixes 45 and 46: For many HLA-B alleles fourth exon nucleotide sequences are not available. We assume that unknown sequences in the fourth exon are conserved within allelic groups.

²⁶Primer mix 46: Specific PCR fragment of 380 bp for the B*3573 allele. Specific PCR fragment of 165 bp in the other alleles amplified by this primer mix. The B*7301 and Cw*0503 alleles may be weakly amplified by primer mix 46.

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Lot-specific Information

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Lot-specific Information

INTERPRETATION TABLE																								
HLA-B*35 SSP subtyping																								
Amplification patterns of the B*3501 to B*3588 alleles																								
	Well ⁵																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Length of spec.	95	150	115	275	280	85	325	275	140	140	225	95	170	75	135	95	180	105	230	200	265	90	190	425
PCR product										240						190	380					270		
Length of int.	800	1070	800	1070	800	1070	1070	1070	800	1070	800	1070	800	800	1070	1070	1070	1070	1070	1070	800	1070	800	1070
pos. control ¹																								
5'-primer(s) ²	206	355	412	419	412	419	368	419	363	49	355	206	527	355	463	112	106	206	106	141	49	209	379	49
	5'-gAC ³	5'-TCA ³	5'-ATg ³	5'-gTC ³	5'-ATA ³	5'-gTA ³	5'-gTT ³	5'-gTT ³	5'-AGC ³	5'-CAg ³	5'-TCA ³	5'-gAC ³	5'-TgA ³	5'-TCA ³	5'-TgA ³	5'-CCG ³	5'-CCA ³	5'-gAC ³	5'-CCA ³	5'-ATT ³	5'-CAg ³	5'-ggC ³	5'-ACC ³	5'-CAg ³
									388							206	320			412		355		
										5'-CCT ³						5'-gAA ³	5'-CgA ³			5'-ATA ³		5'-TCA ³		
3'-primer(s) ³	259	463	486	3rd in	3rd in	463	3rd in	3rd in	463	119	538	259	3rd in	387	559	259	246	272	292	309	142	259	527	301
	5'-gTT ³	5'-gCT ³	5'-gCg ³	5'-TAT ³	5'-TAT ³	5'-gCT ³	5'-TAT ³	5'-TAT ³	5'-gCT ³	5'-ggA ³	5'-CCg ³	5'-CTC ³	5'-TAT ³	5'-TCC ³	5'-CTC ³	5'-gTT ³	5'-TAT ³	5'-Tgg ³	5'-gTC ³	5'-ATC ³	5'-TgA ³	5'-gTT ³	5'-CCA ³	5'-gTC ³
										486							419	538	299	559		583		309
										5'-gCg ³					5'-ggg ³		5'-CgA ³	5'-gTC ³	5'-TCA ³	5'-CTC ³		5'-gTg ³		5'-ATC ³
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
HLA-B allele ⁴																								
*350101-350103, 350105-350107	1	2	3	4																			23	
*350104	1	2	3	4																			23	
*350201-350202	1	2			5	6																	23	
*3503	1	2	3					8															23	
*350401-350402	1	2			5	6																	23	
*3505	1		3	4					9														23	
*3506	1	2			5			8															23	
*3507	1	2	3	4						10													23	
*350801-350802	1	2	3	4							11												23	
*350803	1	2	3	4							11												23	
*350901	1				5																		23	
*350902	1				5																		23	
*3510		2	3	4								12											23	
*3511	1	2	3	4									13											
*3512	1	2			5	6								14										
*3513		2	3					8				12											23	
*351401	1	2	3	4									13											
*351402	1	2		4									13											
*3515	1	2	3	4											15								23	
*3516		2	3	4					9			12												
*3517	1	2	3	4					9															
*3518	1				5						11												23	
*3519		2	3	4												16							23	
*352001-352002	1	2	3	4													18						23	
*3521	1	2	3	4									13									22		
*3522	1				5	6			9															
*3523	1	2	3	4			7																23	
*3524	1	2	3	4																		22	23	
*3525		2	3	4																	21		23	
*3526		2	3	4													17						23	
*3527	1	2	3	4																			23	
*3528		2	3	4								12						18						23
*3529	1	2	3	4															19				23	
*3530	1	2	3	4					9														23	
*3531	1				5															20				
*3532	1		3	4																				
*3533	1	2	3				8								15								23	
*3534	1	2	3			6																	23	
*3535	1	2	3	4																			23	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
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																				45			48	*3537
																				45		47	48	*3538
																				45			48	*3539
		27								35										45			48	*3540N
																				45			48	*3541
	26																			45			48	*3542
			28										39								46		48	*3543
				28									39							45			48	*3544
								33												45			48	*3545
																					46		48	*3546
								33												45			48	*3547
									34											45			48	*3548
					30															45			48	*3549
	26					31														45			48	*3550
			28																	45	46		48	*3551
																41				45			48	*3552
																	42			45			48	*3553N
																		43		45			48	*3554
																			44	45			48	*3555
25																				45			48	*3556
																					46		48	*3557
			28																	45	46		48	*3558
																				45			48	*3559
												37									46		48	*3560
																				45			48	*3561
													39							45			48	*3562
														40						45			48	*3563
25													38							45			48	*3564
																	42			45			48	*3565Q
					30															45	46		48	*3566
			28										39							45	46		48	*3567
										35										45			48	*356801
			28																	45	46		48	*356802
						32														45			48	*3569
										36										45			48	*3570
								33												45			48	*3571
			28																	45			48	*3572
																				45			48	*3574
																				45			48	*3575
						32														45			48	*3576
																				45			48	*3577
																			44	45			48	*3578
			28							36			39								46		48	*3579
													38							45			48	*3580
																				45			48	*3581
																41				45			48	*3582
																				45			48	*3583
	26					31														45			48	*3584
																				45			48	*3585
													39							45	46		48	*3586
																				45	46		48	*3587
25													38							45			48	*3588
25							32						38								46			*070201-070202, 070204-0704, 0707, 0710, 0713, 0715, 0719, 0721-072201, 0723, 0726, 0728, 0730, 0731, 0733, 0735, 0739, 0741-0747, 0749N, 0752, 0754, 0755, 0757, 0759, 0761-0764
25													38								46			*070203, 0716, 0727, 0736, 0737, 0750, 0756, 4808
25							32						38							46				*070501-0706, 0740, 0753
25	26					31	32						38							46				*0708
25							32						38							46				*0709, 0711, 0717
25							32						38							46				*0712
25							32						38							46				*0714, 071801-071802
25			28				32	33					38							46				*0720
25							32						38							46				*072202
25							32						38							46				*0724, 0760
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*0725, 0748, 0751																								
*0729													13						19					
*0732					5								13							20				
*0734					5								13											
*0738													13											
*0758													13											
*080101, 080103-080105, 0805, 0808N-0813, 0815, 0816, 0818, 0819N, 0822, 0824, 0827, 0829-0831, 0833, 0834, 0836					5														19					
*080102					5														19					
*0802					5														w					
*0803, 0823					5																			
*0804, 0817, 0826, 5520					5														19					
*0806, 0820					5								13						19					
*0807			3																19					
*0814																			19					
*0821, 0825					5														19					
*0828				4															19					
*0832	1				5														19					
*0835				4	5														19					
*1301, 1307N, 1317		2			5			8						14	15					20			23	
*130201-130204, 1308Q, 1309, 1311, 1314, 1315, 1318, 1319					5			8							15					20			23	
*1303, 1586, 5402, 5510, 5518, 5901					5			8															23	
*1304				4																			23	
*1306, 1312		2			5			8						14									23	
*1310				4											15									
*1313		2			5	6								14	15					20			23	
*1316					5			8					13		15					20				
*1320		2			5			8					13	14	15					20				
*1321					5									14						20				
*1401-1404, 140601-1408													13											
*1405									9				13											
*15010101-150104, 150106-150108, 1524, 1528, 1534, 1535, 1538, 1543, 1554, 1556, 1557, 1560, 1566, 1571, 1579N, 1581, 1582, 1587, 1592, 1594N, 1596, 1597, 9504, 9513, 9518, 9520, 9522, 9525, 9528, 9535, 9540, 9542, 9546				4									13											
*1502, 1513, 1521, 1544, 1589, 9512, 9521, 9539		2		4									13	14								22		
*1503, 1518, 1523, 1539, 1564, 1565, 1572, 1574, 1578, 1598, 9503, 9508, 9515, 9519, 9527, 9532, 9534				4									13											
*1504				4									13											
*1505, 1551, 9523, 9536				4																				
*1506				4			7						13											
*1507, 1568, 9526				4					9				13											
*1508, 151101-151102, 1515				4									13									22		
*1509					5	6							13											
*1510, 1537, 1590, 1599						6							13											
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*1512, 1519				4									13											
*1514, 1546				4									13											
*1516, 1567, 1595, 4905				4									13											
*15170101-151702													13											
*1520, 4802		2	3	4																			23	
*1525, 1536, 1580		2		4									13	14										
*1526N, 1532, 1550, 9510, 9529				4									13											
*152701-152702, 9509				4			7						13											
*1529				4									13											
*1530					5	6							13											
*1531				4																		22		
*1533, 9516, 9541				4									13											
*1540, 1547, 1549, 9538				4									13		15									
*1542					5			8					13											
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	
25							32						38								46				*0725, 0748, 0751
25							32						38								46				*0729
25	26					31	32						38								46				*0732
25							32						38								46				*0734
25	26					31							38								46				*0738
25							32						38												*0758
						31															46				*080101, 080103-080105, 0805, 0808N-0813, 0815, 0816, 0818, 0819N, 0822, 0824, 0827, 0829-0831, 0833, 0834, 0836
25						31							38								46				*080102
						31															46				*0802
						31															46				*0803, 0823
																					46				*0804, 0817, 0826, 5520
25						31							38								46				*0806, 0820
						31															46				*0807
						31															46				*0814
			28			31															46				*0821, 0825
						31															46				*0828
						31															46				*0832
						31															46				*0835
					30							37									46				*1301, 1307N, 1317
					30							37									46				*130201-130204, 1308Q, 1309, 1311, 1314, 1315, 1318, 1319
				29								37									46				*1303, 1586, 5402, 5510, 5518, 5901
												37									46				*1304
					30																46				*1306, 1312
																					46				*1310
					30																46				*1313
					30							37									46				*1316
					30							37									46				*1320
25					30								38								46				*1321
																					46				*1401-1404, 140601-1408
																					46				*1405
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			28																		46				*1503, 1518, 1523, 1539, 1564, 1565, 1572, 1574, 1578, 1598, 9503, 9508, 9515, 9519, 9527, 9532, 9534
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			28																		46				*1505, 1551, 9523, 9536
																					46				*1506
			28											39							46				*1507, 1568, 9526
			28											39							46				*1508, 151101-151102, 1515
			28																		46				*1509
			28																		46				*1510, 1537, 1590, 1599
														39							46				*151103
			w											39							46				*1512, 1519
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				29																	46				*1516, 1567, 1595, 4905
			28																		46				*15170101-151702
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																					46				*1525, 1536, 1580
														39							46				*1526N, 1532, 1550, 9510, 9529
														39							46				*152701-152702, 9509
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			28											39							46				*1530
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25			28										38								46				*1533, 9516, 9541
																					46				*1540, 1547, 1549, 9538
												37									46				*1542
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.	

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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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*1548					5	6																		
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*1553				4									13											
*1555				4					9													22		
*1558					5			8					13											
*1561				4									13					19						
*1562		2		4									13											
*1563						6							13											
*1569, 1593				4									13											
*1570, 1576, 9501, 4604, 5603				4									13					19						
*1573					5			8					13											
*1575, 9505, 9511N, 9545				4																				
*1577		2											13	14										
*1583					5	6																		
*1584				4			7																	
*1585		2		4									13											
*1588		2		4										14								22		
*1591				4																				
*9502				4									13											
*9506		2		4									13	14										
*9507				4																				
*9517				4									13		15									
*9531				4									13											
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*9537													13											
*9543				4									13			16								
*9544		2		4									13	14								22		
*180101-1802, 1805, 1806, 1808, 1811, 1813, 1817N, 1818, 1823N-1825, 1828	1		3	4														18			21			
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*1807	1		3	4																	21			
*1809	1		3	4														18			21			
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*1815	1		3	4									13					18			21			
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*1820	1			4														18			21			
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*1826	1				5	6												18			21			
*1827	1		3	4			7											18			21			
*1829	1		3	4																				
*2701, 2731															15									
*2702, 2703, 270502-270510, 2709, 2713, 2716, 2717, 2729, 2735, 2737, 2739															15									24
*270401-270402, 2706, 2721													13		15									
*2707					5														20					24
*2708, 2712, 2726															15									
*2710													13		15									24
*2711					5														20					
*2714															15							23	24	
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*2718, 2740													13		15									
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*2720, 2724					5								13						20					
*2723															15									
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*2732									9						15									24
*2733					5														20					
*2736																								
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*2742															15									w
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
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			28																		46			*1548
																					46			*1552, 9514, 9524
			28											39	40						46			*1553
			28																		46			*1555
			28											39							46			*1558
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			28											39							46			*1563
																					46			*1569, 1593
			28				32							39							46			*1570, 1576, 9501, 4604, 5603
			28									37		39							46			*1573
			28											39							46			*1575, 9505, 9511N, 9545
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																					46			*1583
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			28											39							46			*1591
																								*9502
								33													46			*9506
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														39							46			*9517
			28					33													46			*9531
			28																		46			*9533
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			28											39							46			*9543
														39							46			*9544
																					46			*180101-1802, 1805, 1806, 1808, 1811, 1813, 1817N, 1818, 1823N-1825, 1828
							w														46			*1803
																					46			*1804
26						31															46	48		*1807
																			44		46			*1809
						30															46			*1810
																					46			*1812
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																					46			*1819
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																					46			*1821
																					46			*1822
																					46			*1826
																					46			*1827
26						31															46	48		*1829
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25					30									38							46			*2702, 2703, 270502-270510, 2709, 2713, 2716, 2717, 2729, 2735, 2737, 2739
25					30									38							46			*270401-270402, 2706, 2721
25					30									38							46			*2707
25					30									38		40					46			*2708, 2712, 2726
25					30									38							46			*2710
25					30									38							46			*2711
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25					30									38							46			*2727
25					30									38							46			*2728, 2734, 2738
25					30									38							46			*2732
25					30									38		40					46			*2733
25					30									38							46			*2736
25					30									38							46			*2741
25					30									38		40					46			*2742
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
*370101-370102, 370104, 3703N		2										12						18			21			24
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*3702												12			15			18			21			24
*3704		2										12						18			21	22		24
*3705		2										12						18			21			w
*3706		2																			21			24
*3707												12	13					18			21			24
*3708	1	2																18			21			24
*3709			3									12						18			21			24
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*3907, 3943			3	4																				
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*3917, 4415, 4418																								
*391901	1				5			8																
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*401402					5															20				
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*4019					5															20				?
*4024																						23		
*4025					5											16				20				
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*4036, 4048					5			8												20				
*4038				4	5															20				
*4039, 4108					5																			
*4043, 4073					5														19	20				
*4046					5															20				
*4051					5								13											
*4059, 4060				4																			23	
*4063					5																			
*4068					5									14		16				20			23	
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
																					46			*370101-370102, 370104, 3703N
25													38								46			*370103
																					46			*3702
																					46			*3704
25																					46			*3705
																					46			*3706
25													38								46			*3707
																					46			*3708
25													38								46			*3709
																			44		46			*3710
																					46			*3711
																					46			*3712
																					46			*3713
																					46			*380101, 380201-3805, 3808, 3809, 3811-3817, 39010101-39010102L, 390103-390202, 3905, 3908-391302, 3916, 3920, 3922, 3923, 3926-3928, 3930, 3931, 3838Q-3941, 670101-6702
																					46			*380102, 3925N, 4420, 4447
26						31															46			*3806, 3807
																					46			*3810, 3918, 3935
																					46			*3903, 3924, 3937
																					46			*3904
				29																	46			*390601-390602, 3933, 3934
																					46			*3907, 3943
																					46			*3914
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												37									46			*3917, 4415, 4418
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			28																		46			*3932
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											36										46			*3942
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25													38		40						46			*4004
25			28										38		40						46			*4005
25	26					31							38		40						46		48	*4008
25													38		40						46			*4009, 4018, 4031, 4033, 4042, 4044
25													38								46			*4010, 4012, 4021, 4047, 4076, 4083, 480101-480102, 480301-4804, 4809- 4811, 4813, 4816, 4818, 4819
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				30											40						46			*401401, 4072
															40						46			*401402
25													38		40						46			*4015, 4016, 4023
25													38								46			*4019
25													38		40						46			*4024
25													38		40						46			*4025
			28												40						46			*4026
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25													38		40						46			*4030, 4034, 4064
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25													38		40						46			*4043, 4073
25													38		40						46			*4046
25													38		40						46			*4051
25													38		40						46			*4059, 4060
25			28										38		40						46			*4063
25	26					31							38		40						46		?	*4068
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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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*4077					5			8							15					20				
*4086					5			8												20				
*4087					5	6									15					20				
*4101-410302, 4106, 4107					5																			
*4104			3																					
*4105					5																			
*4201, 4202, 4204-420502, 4207, 4208					5																			
*4206					5			8																
*4209			3	4																				
*44020101-440303, 4405, 4407, 4408, 4411, 4413, 4419N, 4422-4424, 4426, 4427, 4429, 4430, 4432-4435, 4437-4439, 4442, 4448, 4449, 4452N, 4455, 4457-4460		2												14										
*4404, 442801-442802, 4456N		2								11				14										
*4406	1	2												14					20				24	
*4409, 4446		2												14										
*4410		2			5		7	8															23	
*4412		2												14		16								
*4414		2			5									14										
*4416, 4421		2												14	15									
*4417		2	3	4										14										
*4425, 4450		2												14									24	
*4431					5														20					
*4436		2																						
*4440, 4444		2												14										
*4441																								
*4443		2		4										14										
*4445, 4451		2	3											14										
*4453														14										
*4454									9															
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*4502																								
*4503																								
*4506																			19					
*4508								8																
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*460102, 4602				4										13					19					
*4603				4										13					19					
*4605				4										13										
*4606				4															19					
*4607N				4										13					19					
*4608				4										13					19					
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*4613			3	4															19					
*47010101-47010102							7								15									24
*4702							7								15									
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*4705															15									24
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*4806					5														20					
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*5001, 5002, 5004														13										
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
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															40					46				*4077
25				29								38	40							46				*4086
															40					46				*4087
															40					46				*4101-410302, 4106, 4107
															40					46				*4104
																				46				*4105
							32													46				*4201, 4202, 4204-420502, 4207, 4208
							32													46	47			*4206
							32													46				*4209
																				46				*44020101-440303, 4405, 4407, 4408, 4411, 4413, 4419N, 4422-4424, 4426, 4427, 4429, 4430, 4432-4435, 4437-4439, 4442, 4448, 4449, 4452N, 4455, 4457-4460
																				46				*4404, 442801-442802, 4456N
															40					46		48		*4406
																				46				*4409, 4446
								33				37								46				*4410
																				46				*4412
								33												46				*4414
					30															46				*4416, 4421
								33												46				*4417
																				46				*4425, 4450
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			28																	46				*4454
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															40					46				*4503
												37			40					46				*4506
												37			40					46				*4508
			28				32								39					46				*460101, 4610, 4614
			28												39					46				*460102
							32													46				*4603
			28				32							39						46				*4605
25							32						38							46				*4606
							32							39						46				*4607N
			28				32													46				*4608
			28				32							39						46				*4609
							32					37								46				*4611
			28				32							39						46				*4612
			28				32													46				*4613
25												38								46				*47010101-47010102
25												38	40							46				*4702
25												38								46				*4703
25												38								46				*4704
25												38								46				*4705
25												38								46				*4805, 4815
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25												38								46				*4807
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																				46				*4814
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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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*510109	1				5	6							13											24
*510203	1					6							13							20				24
*5104, 5146	1	2			5	6							13	14						20		22		24
*5105, 510902	1				5	6																		24
*5106	1				5	6							13							20				24
*5107	1				5	6							13					18		20				24
*5108, 510901, 5119, 5140, 5144N, 5153	1				5	6														20				24
*5110	1				5															20				24
*511301-511302	1				5			8					13							20				24
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*5115	1				5			8															23	24
*5116, 5134	1				5	6							13		15					20				24
*5117	1												13							20				24
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*512402	1				5								13							20				24
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*5142	1	2												14						20				24
*5145	1		3	4									13							20				24
*5150	1				5	6							13											
*5154	1				5	6																		
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*520102, 520104, 5209					5	6						12	13					18		20				24
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*5203					5	6						12						18		20				24
*520601-520602					5	6						12	13							20				24
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*5210					5	6						12						18						24
*5212			3			6						12	13					18						24
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*5302	1	2	3	4																	22	23	24	
*5304	1	2	3					8														23	24	
*5306	1	2	3	4									13							20		22		24
*5307	1																							24
*5308	1	2	3	4									13											24
*5309	1	2	3	4														18					23	
*5311	1	2	3	4								11											23	
*5312, 5313	1	2	3	4																			23	
*5314	1		3	4					9														23	24
*5316	1	2	3	4								11											23	24
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*5409			3	4															19					
*5411					5														19				23	
*5412					5			8											w				23	
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*5504					5														19					
*5508					5														19					
*5509, 5524					5			8					13		15				19	20				
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
																				45			48	*510101, 510103-510108, 510201, 5103, 5111N, 5112, 5121, 5126-5130, 5132, 5133, 5135, 5136, 5138, 5139, 5141N, 5143, 5148, 5149, 5151, 5152, 5155
25													38							45			48	*510102, 510202
																				45			48	*510109
																				45			48	*510203
																				45			48	*5104, 5146
			28																	45	46		48	*5105, 510902
																				45			48	*5106
																				45			48	*5107
25													38							45			48	*5108, 510901, 5119, 5140, 5144N, 5153
				29																45			48	*5110
																				45			48	*511301-511302
																				45			48	*5114, 512401
					30							37								45			48	*5115
																				45			48	*5116, 5134
																				45			48	*5117
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																				45			48	*520101, 520103, 5204, 5205, 5211
																				45			48	*520102, 520104, 5209
																				45			48	*5202, 5808
																				45			48	*5203
																				45			48	*520601-520602
																				46			48	*5207
					30															45			48	*5208
																				45			48	*5210
																				45			48	*5212
																				45			48	*530101-530102, 530104, 5303, 5305, 5310, 5315
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																				45			48	*5302
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																				45			48	*5308
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																				45	46		48	*5314
																				45			48	*5316
												37								46			48	*5401, 5403, 5405N, 5407, 5408N, 5410, 5413, 550201-550202, 5507, 5512, 5516, 5519, 5526, 5530, 5601, 5608, 5610, 5614, 5616, 5617, 5619N
			28										39							46			48	*5404, 5615
25																				46			48	*5406
																				46			48	*5409
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25												37								46			48	*550103
												38								46			48	*5504
25				28									38							46			48	*5508
					30							37								46			48	*5509, 5524
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

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Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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*5521					5			8					13						19					
*5522					5			8							15				19	20			23	
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*5527			3			6													19				23	
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*5606					5	6							13						19					
*5607					5			8											w				23	
*5609		2	3	4															19				23	
*5611		2	3					8											19				23	
*5612		2			5	6								14					19					
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*5620					5			8											19				23	
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*5622					5			8											19				23	
*5623					5			8															23	
*570101-570103, 5706, 5708, 5710, 5715, 5716		2		4										14										24
*5702		2			5	6					11			14										24
*570301-570302		2			5	6								14										24
*5704		2									11			14										24
*5705		2				6					11												23	24
*5707		2			5	6								14										24
*5709		2			5	6							13	14										24
*5711				4																				24
*5712		2			5	6					11			14										24
*5713				4							11		13	14										24
*5714		2	3	4										14								22		24
*580101-580102, 5804, 5810N, 5813-5815		2	3	4																			23	24
*5802			3	4																			23	24
*5805		2	3	4																				24
*5806			3	4									13											24
*5807			3	4																			23	24
*5809		2	3	4																		22	23	24
*5811		2	3	4																			23	24
*5812		2	3	4																	21		23	24
*5816			3	4																			23	24
*5817N		2	3	4																			23	
*5902					5																		23	
*7301																								
*7801	1				5	6							13						19					
*780201-780202	1				5	6							13											
*7803	1				5	6							13						19					
*7804	1				5	6																		
*7805					5	6					12		13					18						
*8101					5															20	21			
*8102, 8104N					5															20				
*8103					5															20				
*8201, 8202					5		7	8																
*8301		2												14					19			21		
HLA-B allele ⁴																								
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
Cw*0110, 0715																								
Cw*0203, 0512																							23	
Cw*0305, 0325, 0327																								
Cw*0328, 0510, 1508											11													
Cw*070401-070402, 0711, 0712, 0745																								

Lot No.: **88E**

Lot-specific Information

25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
				29																	46			*5513
																					46			*5514
																					46			*5517, 5528, 560501-560502
												37		39							46			*5521
					30							37									46			*5522
				29																	46			*5523
																					46			*5527
			28									37									46			*5602
			28									37									46			*5604
							32														46			*5606
												37									46			*5607
																					46			*5609
																					46			*5611
																					46			*5612
												37									46	47		*5613
																					46			*5618
																					46			*5620
				29																45				*5621
												37									46			*5622
																					46			*5623
																					46			*570101-570103, 5706, 5708, 5710, 5715, 5716
																					46			*5702
																					46			*570301-570302
																					46			*5704
								33													46			*5705
																					46			*5707
																					46			*5709
																					46			*5711
25													38								46			*5712
																					46			*5713
																					46			*5714
																				45				*580101-580102, 5804, 5810N, 5813-5815
																					45			*5802
																					45			*5805
																					45			*5806
								33													45			*5807
																					45			*5809
																					46			*5811
																					45			*5812
			28																		45			*5816
																					45			*5817N
				29			32														46			*5902
							32														45		48	*7301
																					45		48	*7801
							32									41					45			*780201-780202
																					45			*7803
																					45		48	*7804
																					45			*7805
25					30		32						38								46			*8101
25							32						38								46			*8102, 8104N
25							32						38								45			*8103
								33				37									46	47		*8201, 8202
					30		32														46			*8301
																								HLA-B allele ⁴
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.
				w																				Cw*0110, 0715
																								Cw*0203, 0512
			28																					Cw*0305, 0325, 0327
																								Cw*0328, 0510, 1508
																					w			Cw*070401-070402, 0711, 0712, 0745
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Well No.

Lot No.: 88E

Lot-specific Information

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

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*35 subtyping. .

In addition, wells number 3, 5, 9, 11, 13, 14, 21, 23, 25, 26, 28, 30, 34, 36, 42, 45 and 47 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

²The nucleotide position, in the 1st, 2nd, 3rd or 4th exon, matching the specificity-determining 3'-end of the primer is given. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

³The nucleotide position, in the 2nd, 3rd or 4th exon or the 3rd intron, matching the specificity-determining 3'-end of the primer is given in the anti-sense direction. Nucleotide numbering as on the www.ebi.ac.uk/imgt/hla web site. The sequence of the 3 terminal nucleotides of the primer is given.

⁴The B*3573 allele has been renamed to B*350803.

⁵Primer mix 10: Specific PCR fragment of 140 bp in the B*3583 allele. Specific PCR fragment of 240 bp in the B*3507 allele.

Primer mix 16: Specific PCR fragment of 95 bp in the B*9543, 3519, 3547 and B*4008, 4025, 4068 and 4412 alleles. Specific PCR fragment of 190 bp in the B*3577 allele.

Primer mix 17: Specific PCR fragment of 180 bp in the B*3526 and B*3904 alleles. Specific PCR fragment of 380 bp in the B*3536 allele.

Primer mix 22: Specific PCR fragment of 90 bp in the B*3546 and the B*1502, 1508, 151101-151103, 1513, 1515, 1521, 1531, 1544, 1555, 1588, 1589, 9512, 9521, 9539 and 9544 alleles. Specific PCR fragment of 270 bp in the B*3521, 3524, 3581 and the B*1822, 3704, 4028, 5104, 5146, 5302, 5306, 5714 and 5809 alleles.

Primer mix 25: Specific PCR fragment of 135 bp in the B*3527 and 3556 and the B*3705 alleles. Specific PCR fragment of 210 bp in the other alleles amplified by this primer mix.

Primer mix 26: Specific PCR fragment of 210 bp in the B*3550, 3584 and B*0708, 0732, 0738, 3806, 3807 and 4806 alleles. Specific PCR fragment of 370 bp in the B*3542 and B*1807, 1829, 2723, 4008, 4013 and 4068 alleles.

Primer mix 30: Specific PCR fragment of 115 bp in the B*3515, 3533 and 3566 and B*1301-130204, 1307N-1311, 1313-1321, 1810, 401401, 4046[?], 4072, 4077, 4416, 4421, 4440, 4444, 4812, 5116, 5131, 5134, 5208, 5509, 5522, 5524, Cw*0110^w and Cw*0715^w alleles. Specific PCR fragment of 325 bp in the B*3525, 3526 and 3549 and B*2701-270402, 270502-2721, 2723-2742, 8101 and 8301 alleles.

Primer mix 31: Specific PCR fragment of 170 bp in the B*3525 and B*0708, 0732, 0738, 080101-0803, 0805-0816, 0818-0825, 0827-0836, 1529, 1807, 1829, 3806, 3807 and 4806 alleles. Specific PCR fragment of 210 bp in the B*3550, 3584 and B*2723, 4008, 4013 and 4068 alleles.

Primer mix 33: Specific PCR fragment of 70 bp in the B*3547 and B*1546 and 9506 alleles. Specific PCR fragment of 205 bp in the B*3545, 3571 and B*0720, 1514, 1591, 9531, 4410, 4414, 4417, 4431, 4443, 4445, 4451, 5123, 5707, 5807, 8201 and 8202 alleles.

Primer mix 35: Specific PCR fragment of 150 bp in the B*3540N allele. Specific PCR fragment of 365 bp in the B*356801 allele.

Primer mix 36: Specific PCR fragment of 110 bp in the b*3579 allele. Specific PCR fragment of 180 bp in the B*3570 allele. Specific PCR fragment of 230 bp in the B*3535 and B*3942 alleles.

Primer mix 38: Specific PCR fragment of 295 bp in the B*350201-350202 alleles. Specific PCR fragment of 210 bp in the other alleles amplified by this primer mix.

Primer mix 41: Specific PCR fragment of 105 bp in the B*3582, 3585 and B*391901-391902, 5122 and 7803 alleles. Specific PCR fragment of 135 bp in the B*3552 allele.

Primer mix 42: Specific PCR fragment of 155 bp in the B*3553N allele. Specific PCR fragment of 250 bp in the B*3565Q allele.

Primer mix 44: Specific PCR fragment of 110 bp in the B*3578 allele. Specific PCR fragment of 145 bp in the B*1809, 3710, 5154, 5309 and 5311-5313 alleles. Specific PCR fragment of 300 bp in the B*3555 allele.

Lot No.: 88E

Lot-specific Information

Primer mix 46: Specific PCR fragment of 380 bp for the B*3573 allele. Specific PCR fragment of 165 bp in the other alleles amplified by this primer mix. The B*7301 and Cw*0503 alleles may be weakly amplified by primer mix 46.

'w', might be weakly amplified.

'?', nucleotide sequence of the primer matching region not known.

Lot No.: **88E**

Lot-specific Information

CELL LINE VALIDATION SHEET																				
HLA-B*35 SSP subtyping																				
					Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:	200735401	200735402	200735403	200735404	200849105	200735406	200735407	200735408	200849109	200849110	200735411	200735412	200735413	200735414	200735415	200735416
	IHC cell line		B*																	
1	9001	SA	*0702		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
2	9280	LK707	*5201	*7301	-	-	-	-	+	+	-	-	-	-	-	+	+	-	-	-
3	9011	E4181324	*52011		-	-	-	-	+	+	-	-	-	-	-	+	+	-	-	-
4	9275	GU373	*1510	*5301	+	+	+	+	-	+	-	-	-	-	-	-	+	-	-	-
5	9009	KAS011	*3701		-	+	-	-	-	-	-	-	-	-	-	+	-	-	-	-
6	9353	SM	*3901	*5101	+	-	-	-	+	+	-	+	-	-	-	-	+	-	-	-
7	9020	QBL	*1801		+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
8	9007	DEM	*5701		-	+	-	+	-	-	-	-	-	-	-	-	-	+	-	-
9	9026	YAR	*3801		-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
10	9107	LKT3	*5401		-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
11	9051	PITOUT	*4403		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-
12	9052	DBB	*5701		-	+	-	+	-	-	-	-	-	-	-	-	-	+	-	-
13	9067	BTB	*2705		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-
14	9071	OLGA	*1501	*1520	-	+	+	+	-	-	-	-	-	-	-	-	+	+	-	-
15	9075	DKB	*4001		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*4002		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
17	9008	WILJON	*1801		+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
18	9257	32367	*1401	*5601	-	-	-	-	+	-	-	+	-	-	-	-	+	+	-	-
19	9038	BM16	*1801		+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
20	9059	SLE005	*4001		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
21	9064	AMALA	*1501		-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-
22	9056	KOSE	*3503		+	+	+	-	-	-	-	+	-	-	-	-	-	-	-	-
23	9124	IHL	*4002	*5602	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
24	9035	JBUSH	*3801		-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
25	9049	IBW9	*1402		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
26	9285	WT49	*5801		-	+	+	+	-	-	-	-	-	-	-	-	-	+	-	-
27	9191	CH1007	*0705	*5101	+	-	-	-	+	+	-	-	-	-	-	-	+	-	-	-
28	9320	BEL5GB	*4402	*4403	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-
29	9050	MOU	*4403		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-
30	9021	RSH	*4201		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
31	9019	DUCAF	*1801		+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
32	9297	HAG	*4102		-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
33	9098	MT14B	*4001		-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-
34	9104	DHIF	*3801		-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
35	9302	SSTO	*4402		-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-
36	9024	KT17	*1501	*3501	+	+	+	+	-	-	-	-	-	-	-	-	+	-	-	-
37	9065	HHKB	*0702		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
38	9099	LZL	*1501		-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-
39	9315	CML	*0801	*2705	-	-	-	-	+	-	-	-	-	-	-	-	-	-	+	-
40	9134	WHONP199	*1302	*4601	-	-	-	+	+	-	-	+	-	-	-	-	+	-	+	-
41	9055	H0301	*1402		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
42	9066	TAB089	*4601		-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-
43	9076	T7526	*4601		-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-
44	9057	TEM	*3801		-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	-
45	9239	SHJO	*4201	*5001	-	-	-	-	+	-	-	-	-	-	-	-	+	+	-	-
46	9013	SCHU	*0702		-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-
47	9045	TUBO	*5101		+	-	-	-	+	+	-	-	-	-	-	-	+	-	-	-
48	9303	TER-ND	*3501	*4403	+	+	+	+	-	-	-	-	-	-	-	-	-	+	-	-

Lot-specific Information

June 2009
Rev. No.: 03u



Lot No.: **88E**

Lot-specific Information

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B*35 SSP

Product number: 101.522-24u/03u – without *Taq* pol.
Lot number: 88E
Expiry date: 2010-August-01
Number of tests: 24 tests – Product No. 101.522-24u
3 tests – Product No. 101.522-03u
Number of wells per test: 48

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2007-354-01	17	2007-354-17	33	2007-354-33
2	2007-354-02	18	2007-354-18	34	2007-354-34
3	2007-354-03	19	2007-354-19	35	2007-354-35
4	2007-354-04	20	2007-354-20	36	2008-491-36
5	2008-491-05	21	2007-354-21	37	2007-354-37
6	2007-354-06	22	2007-354-22	38	2007-354-38
7	2007-354-07	23	2007-354-23	39	2007-354-39
8	2007-354-08	24	2007-354-24	40	2007-354-40
9	2008-491-09	25	2008-491-25	41	2008-491-41
10	2008-491-10	26	2007-354-26	42	2007-354-42
11	2007-354-11	27	2007-354-27	43	2007-354-43
12	2007-354-12	28	2007-354-28	44	2008-491-44
13	2007-354-13	29	2007-354-29	45	2007-354-45
14	2007-354-14	30	2007-354-30	46	2007-354-46
15	2007-354-15	31	2007-354-31	47	2007-354-47
16	2007-354-16	32	2007-354-32	48	2007-354-48

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

No DNAs carrying the alleles to be amplified by primer solutions 10, 16, 17, 22, 26, 27, 33 to 36, 41 to 44 were available. The specificities of the primers in primer solutions 16, 17, 22, 26, 33 and 36 were tested by separately adding one or two additional 5'-primer(s), respectively one or two additional 3'-primer(s). One of the 5'-primers in primer solution 17 was not possible to test. In primer solutions 10, 27, 41, 42 and 44 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 34, 35 and 43 it was only possible to test the 3'-primers, the 5'-primers were not possible to test.

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

Date of approval: 2009-June-24

Approved by:

Quality Control, Supervisor

Lot No.: **88E**

Lot-specific Information

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*35
Product number: 101.522-24u/03u
Lot number: 88E

Intended use: HLA-B*35 high resolution histocompatibility testing

Manufacturer: *Olerup* SSP AB
Hasselstigen 1
SE-133 33 Saltsjöbaden, 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 9001:2000 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at *Olerup* SSP AB, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.

The Authorized Representative located within the Community is: *Olerup* SSP AB.

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

Saltsjöbaden, Sweden
2009-June-24

Olle Olerup
Managing Director

Lot No.: **88E**

Lot-specific Information

Lot No.: **88E**

Lot-specific Information

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