

Olerup SSP® HLA-B*15

Product number:	101.516-24/04 – including <i>Taq</i> pol.
Lot number:	65G
Expiry date:	2012-January-01
Number of tests:	24 tests – Product No. 101.516-24 4 tests – Product No. 101.516-04
Number of wells per test:	96
Storage - pre-aliquoted primers:	dark at -20°C
- PCR Master Mix:	-20°C

This Product Description is only valid for Lot No. 65G.

**CHANGES COMPARED TO THE PREVIOUS *OLERUP SSP*®
HLA-B*15 Lot**

The HLA-B*15 specificity and interpretation tables have been updated for the HLA-B alleles described since the previous *Olerup SSP*® HLA-B*15 lot was made (Lot No. 97E).

Sixteen wells have been added to the HLA-B*15 kit,
wells **81 to 96**.

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

Well	5'-primer	3'-primer	rationale
4	Moved	-	Primer pair moved to well 81.
13	-	Modified	Increased specificity of primer pair.
40	-	Modified	Increased specificity of primer pair.
51	Moved	Moved	Primer pair moved to well 82.
59	-	-	Exchanged positive control primer pair.
61	Added	-	New primer for the B*9575 allele.
66	Added	-	Improved allele resolution.
79	-	-	Exchanged positive control primer pair.
81	New	New	Primer pair from well 4.
82	New	New	Primer pair from well 51, for improved resolution of the B*1581 and B*9553 alleles.
83	New	New	New primer pair for the B*9559 allele.
84	New	New	New primer pair for the B*9567 allele.
85	New	New	New primer pairs for the B*9557 and B*9564 alleles.

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86	New	New	New primer pair for the B*9566 allele.
87	New	New	New primer pair for the B*9569 allele.
88	New	New	New primer pairs for the B*9558 and B*9571 alleles.
89	New	New	New primer pair for the B*9560 allele.
90	New	New	New primer pair for the B*9573 allele.
91	New	New	New primer pair for the B*9570 allele.
92	New	New	New primer pair for the B*9572 allele.
93	New	New	New primer pair for the B*9577 allele.
94	New	New	New primer pairs for the B*9523 and B*9578 alleles.
95	New	New	Improved resolution of the B*1501 and B*1540 alleles.
96	New	New	New primer pair for the B*9574 allele.

Changes in revision R01 compared to R00:

1. Primer mix 14 amplifies the B*1507, 1545, 1555, 1568 and 9526 and the B*4612 alleles.

PRODUCT DESCRIPTION

HLA-B*15 SSP subtyping

CONTENT

The primer set contains 5'- and 3'-primers for identifying the B*15010101 to B*9578 alleles.

PLATE LAYOUT

Each test consists of 96 PCR reactions in a 96 well cut PCR plate.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	96

The 96 well cut PCR plate is marked with 'HLA-B*15' in silver/gray ink.

Well No. 1 is marked with the Lot No. '65G'.

A faint row of numbers is seen between wells 1 and 2 or wells 7 and 8 of the PCR trays. These stem from the manufacture of the trays, and should be disregarded. The PCR plates are covered with a PCR-compatible foil.

INTERPRETATION

The interpretation of HLA-B*15 SSP subtypings will be influenced by many other HLA-B alleles. In addition, the Cw*0620 allele will be amplified by primer mix 3, the Cw*0746 allele will be amplified by primer mix 7, the Cw*0203 allele will be amplified by primer mix 9, the Cw*1515 allele will be amplified by primer mix 22, the Cw*0527 allele will be amplified by primer mix 27, the Cw*0768 allele will be amplified by primer mix 34, the Cw*1508 allele will be amplified by primer mix 37 and the Cw*0348 allele will be amplified by primer mix 64.

UNIQUELY IDENTIFIED ALLELES

All the HLA-B*15 alleles, i.e. **B*1501 to B*9578**, recognized by the HLA Nomenclature Committee in October 2009¹ will give rise to unique amplification patterns by the primers in the HLA-B*15 subtyping kit.

The HLA-B*15 subtyping kit cannot distinguish the B*15010101, B*150103 and B*150106 to B*150112 alleles, the B*150201 and B*150202 alleles, the B*150301 and B*150302 alleles, the B*151101 and B*151102 alleles, the B*15170101 to B*151702 alleles, the B*152501 and B*152502 alleles, the B*152701 to B*152703 alleles, the B*153801 and B*153802 alleles or the B*157801 and B*157802 alleles.

¹HLA-B alleles listed on the IMGT/HLA web page 2009-October-19, release 2.27.0, www.ebi.ac.uk/imgt/hla.

SPECIFICITY TABLE

HLA-B*15 SSP subtyping

Specificities and sizes of the PCR products of the 96 primer mixes used for HLA-B*15 SSP subtyping

Primer Mix	Size of spec. PCR product ¹	Size of control band ²	Amplified HLA-B*15 alleles ³	Other amplified Class I alleles ⁴
1	395 bp	800 bp	*15010101-150104, 150106-1507, 1512-1515, 1519, 1520, 1524-1528, 1530-1536, 153801-1540, 1542, 1543, 1545-1550, 1553-1555, 1557, 1558, 1560-1565, 1569-1571, 1573, 1575, 1577-1579N, 1581-1589, 1591, 1592, 1594N, 1596, 1598, 9502-9507, 9509-9513, 9516-9518, 9520-9523, 9525-9529, 9531, 9532, 9535-9538, 9540-9542, 9544-9547, 9550, 9551, 9554-9560, 9563-9567, 9569-9575, 9578	*4012
2	290 bp	1070 bp	*15010101-150103, 150106-150202, 150303- 1508, 151101-151103, 1512-1515, 15170101- 151702, 1519-1521, 1524-1528, 1530-1536, 153801-1540, 1542-1546, 1548, 1550, 1555-1558, 1560, 1563, 1565, 1566, 1570, 1571, 1573, 1575- 1579N, 1581-1589, 1592, 1594N, 1596, 1597, 9501, 9502, 9504-9507, 9509- 9513, 9516-9518, 9520- 9522, 9525, 9526, 9528, 9529, 9535-9550, 9552, 9554, 9555, 9557, 9559, 9560, 9562-9572, 9574, 9575, 9577, 9578	*460101-4622
3⁵	120 bp	1070 bp	*15010101-150104,	*1819, 2725, 351401,

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			150106-150112, 1504, 1507, 1508, 151101-1512, 1514, 1515, 1519, 1524, 1526N-1528, 1530, 1532, 1534, 1535, 153801, 153802, 1543, 1545, 1546, 1550, 1553, 1554, 1556-1558, 1560, 1563, 1566, 1568, 1570, 1571, 1573, 1575-1577, 1579N, 1581, 1582, 1585, 1587, 1590, 1592, 1594N, 1596, 1597, 9501, 9502, 9504, 9505, 9509-9511N, 9513, 9517, 9518, 9520, 9522, 9525, 9526, 9528, 9529, 9535, 9537, 9540, 9542-9549N, 9552, 9554, 9557, 9559, 9560, 9563-9567, 9569, 9571, 9572, 9574, 9575, 9578	351402, 3543, 3544, 3562, 3567, 3579, 3586, 3936, 4505, 460101-4602, 4604, 4605, 4607N, 4609, 4610, 4612, 4614-4617, 4620, 4622, 5161, 5406, 5521, 5603, Cw*0620
4	180 bp	800 bp	*15010102N	
5⁸	385 bp	1070 bp	*150201, 150202, 1508-151104, 1513, 1515, 151801-151803, 1521, 1523, 1529, 1531, 1537, 1544, 1551, 1552, 1555, 1564, 1572, 1576, 1580, 1588-1590, 1593, 1599, 9508, 9512, 9514, 9515, 9519, 9521, 9524, 9533, 9534, 9539, 9543, 9544, 9548, 9553, 9561, 9570, 9576	
6	525 bp	1070 bp	*150201, 150202, 1513, 1521, 152501, 152502, 1536, 1544, 1562, 1577, 1580, 1585, 1588, 1589, 9506, 9512, 9521, 9539, 9544, 9554, 9565, 9570	
7	330 bp	1070 bp	*150301-150303, 1509, 1510, 151801-151803, 1523, 1529, 1537, 1546, 1547, 1549, 1551-1554, 1561, 1562, 1564, 1569, 1572, 1574, 1580, 1590, 1591, 1593, 1598, 1599, 9503, 9506, 9508, 9514,	*4012, Cw*0746

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			9515, 9519, 9523, 9524, 9527, 9531-9534, 9543, 9551, 9553, 9556, 9558, 9561, 9573, 9576	
8⁵	105 bp	1070 bp	*1504, 1516, 1567, 1595, 9537, 9555	*1304, 3537, 390601, 390602, 3933, 3934, 3950, 4086, 4502, 4509, 4904, 4905, 5009, 511301, 511302, 5137, 5163, 5214, 5414, 5513, 5523, 5532, 5622, 5903, 7301
9	200 bp	1070 bp	*1505, 1531, 1552, 1555, 1591, 9507, 9514, 9523, 9524, 9551	*0748, 0813, 0825, 0840 ^w , 1310, 1311, 180101-180105, 1803- 180702, 1809-1812, 1813 ^w , 1814, 1817N, 1820, 1823N-1826, 1828, 1829, 1831-1845, 2707, 2711, 2732-2734, 2743, 3505, 3522, 3531, 3532, 3551, 3566 ^w , 356802, 3572, 3589, 3597, 3930, 3943, 400101-400103, 400105-4003, 4007- 401403, 4018-4022N, 4024, 4025, 4027, 4029, 4031, 4033, 4035-4040, 4042, 4043, 4045-4050, 4052, 4054-4058, 4061- 4063, 4065-4067, 4069, 4071-4074, 4076-4082, 4084, 4085, 4087-4092, 4094, 4097, 4431, 4454, 4465, 4482, 4606, 461301, 461302, 4621, 480101, 480102, 480301, 4804, 4806, 4807, 4809-4814, 4816, 4818, 4820, 5181, 5314, 5409, 5504, 5508, 5602, 5604, 5610, 5618, 5816, 5818, 8101-8104N, Cw*0203
10⁹	300 bp, 520 bp	800 bp	*1506, 152701-152703, 1537-153802, 1584,	

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			9509, 9512	
11 ^{5,7,8}	140 bp	1070 bp	*1507, 1545, 1555, 1568, 9526	*0768, 1405, 1413, 1814, 2732, 3505, 3522, 3551, 3558, 3566, 3572, 3589, 3597, 3819, 3903, 3914, 3924, 3929, 3937, 4035, 4071, 4210, 4454, 4612, 4812, 4814, 5164, 5314, 5818
12	405 bp	1070 bp	*1508, 1529, 1549, 1556	
13 ¹⁰	395 bp, 435 bp	800 bp	*1509, 1510, 151801-151803, 1521, 1523, 1537, 1544, 1551, 1552, 1566, 1572, 1579N, 1580, 1590, 1593, 1599, 9508, 9514, 9515, 9519, 9524, 9533, 9534, 9553, 9561, 9576	
14 ¹¹	465 bp, 515 bp	1070 bp	*1507, 1509, 1510, 1530, 1537, 1545, 1548, 1555, 1563, 1568, 1583, 1590, 1599, 9510, 9526, 9550	4612
15 ⁵	105 bp	1070 bp	*150102, 1509	*070211, 070503, 400106, 4026, 5106, 5159, 5164
16 ^{5,12}	120 bp, 190 bp	1070 bp	*1512, 1519, 9516, 9524	*4052, 4059, 4606
17	435 bp	1070 bp	*1513, 1516-151702, 1523, 1524, 1567, 1587, 1595, 9557, 9562, 9568, 9577	
18	195 bp	1070 bp	*1514, 1591, 9531, 9561	*3545, 3571, 4417, 4443, 4509, 4617, 5807
19 ⁸	400 bp	800 bp	*1516-151702, 1567, 1574, 1595, 9562, 9568, 9577	
20 ^{7,13}	360 bp, 505 bp	1070 bp	*1516, 1534, 1562, 1567, 1585, 1586, 1595, 9505, 9537	*4611, 4618
21 ¹⁴	205 bp, 425 bp	1070 bp	*1516, 1543, 1567, 1595	
22 ⁷	190 bp	800 bp	*15010101-150104, 150106-150112, 150301-1505, 1507-151104, 1512 ^w , 1514-1516, 151801-151803, 1519 ^w , 1520, 1523, 1524,	*0720, 0724, 0760, 0821, 0825, 1303, 1304, 1836, 350101-351402, 3516-3530, 3532, 3534, 3536-3559, 3561-3564, 3567-3572, 3574-3585,

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			1526N-1530, 1532-1535, 1537-1539, 1543, 1545, 1546, 1548, 1551, 1553, 1554, 1556-1558, 1560- 1568, 1570-1576, 157801-1582, 1584, 1585, 1587, 1590-1592, 1594N-1599, 9501-9505, 9507-9511N, 9513, 9515, 9516, 9518-9520, 9522, 9523, 9525-9527, 9529, 9531-9536, 9540-9543, 9545-9555, 9557-9561, 9563-9567, 9569, 9571- 9576, 9578	3589-3592, 3594, 3595, 3597-3599, 3932, 3933, 4005, 4026, 4028, 4063, 4071, 4092, 4410, 4414, 4417, 4443, 4445, 4451, 4462, 4477, 4482, 4509, 460101-4602, 4604, 4605, 4607N-4617, 4619, 4620, 4622, 4802, 4904, 510101-510902, 5111N-5115, 5119, 5120, 5122-512402, 5126-5130, 5132, 5133, 5135, 5137-5141N, 5143-5146, 5148-5180, 5183, 5184, 520101- 5207, 5209-5216, 530101-5306, 5308- 5319, 5403, 5406, 5508, 560101-5609, 5611, 5613-5617, 5620-5622, 5624-5626, 570101, 570102, 570104- 570302, 5706-5712, 5714-5724, 580101- 5802, 5804, 5806-5819, 5821-5824, 5904, 7801- 7806, 8201, 8202, Cw*1515
23⁸	230 bp	1070 bp	*1519	
24^{8,15}	205 bp, 300 bp	1070 bp	*1526N, 1533, 1572, 157801, 157802, 9507, 9516, 9541, 9550	*4606
25¹⁶	315 bp, 385 bp	1070 bp	*1528, 1546, 1553, 9506	
26	230 bp	1070 bp	*1532	
27⁵	115 bp	1070 bp	*1533	Cw*0527
28	240 bp	1070 bp	*1535, 9541	
29	255 bp	1070 bp	*1537-153802	*1405, 140601, 1413, 180101-180105, 1803- 180702, 1809, 1812- 1815, 1817N, 1819, 1820, 1823N-1826, 1828-1834, 1836-1845, 3932, 3943, 3948, 4051, 5106, 5145, 5162, 5164
30¹⁷	320 bp,	1070 bp	*1540, 1547, 1549, 1552,	*4606

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	355 bp		1575, 9514, 9517, 9524, 9538	
31 ^{7,18}	320 bp, 395 bp	1070 bp	*1544, 1550, 1569, 1583, 1586, 1593, 9514, 9521, 9553	*4603, 4618, 4621
32 ⁷	380 bp	1070 bp	*1548, 9508, 9536	*4619
33 ^{8,19}	200 bp, 255 bp	1070 bp	*151803, 1542, 1573, 1586, 9518	*4611, 4618
34 ^{7,8}	160 bp	1070 bp	*1551	*0828, 0835, 0837, 4209, 4417, 4509, 5724, Cw*0768
35	165 bp	1070 bp	*1530, 1558, 1573, 9550	*3544, 3936, 4819, 5161, 5521
36 ²⁰	360 bp, 435 bp	800 bp	*1536, 1582, 1589, 9515	
37	170 bp	1070 bp	*1547, 1549, 1565, 1584, 1599	*070201-070217, 0703, 070501-0713, 0715, 0716, 071801, 071802, 0720-0724, 0727, 0729-0733, 0735-0742, 0744, 0745 ^w , 0746, 0747, 0749N-0751, 0752 ^w , 0753, 0754, 0756-0765, 0767N-0779, 0781-0795, 0797-0799, 0806, 0820, 0840, 1318, 1813, 1821, 1830, 350801-350804, 3518, 3545, 3561, 3566, 3580, 3599, 3707, 3908 ^w , 3911 ^w , 3933, 4015, 4016, 4023, 4032, 4098, 4603, 4805, 4808, 5105, 5129, 5154, 5182, 5311, 5316, 5410, 5509, 5537, 5702, 5712, 5713, 5719, 5822, Cw*1508
38 ⁶	225 bp	1070 bp	*1561, 1570, 1576, 9501	*0729 ^w , 0765, 0772, 0786, 080101 ^w -080109 ^w , 0804 ^w -0822 ^w , 0824 ^w , 0825 ^w , 0826, 0827 ^w -0847 ^w , 1411, 3529, 3569, 3576, 3904, 4043 ^w , 4506 ^w , 460101 ^w , 4603 ^w , 4604 ^w , 4606 ^w -4622 ^w , 5120 ^w , 5401, 5403-5411, 5412 ^w ,

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			5413-5419, 550101-550205, 5503 ^w , 5504, 5505, 5507-5509, 5511, 5512 ^w , 5513-5515, 5516 ^w , 5517, 5519-5524, 5525 ^w , 5526-5530, 5532-5538, 560101-5606, 5608-5620, 5621 ^w , 5622, 5624-5626, 7801, 7803, 8301	
39²¹	305 bp, 325 bp, 380 bp	800 bp	*1560, 1595, 9519	
40²²	220 bp, 425 bp	1070 bp	*1513, 1516-151702, 1523, 1524, 1567, 1571, 1595, 9557, 9562, 9568, 9575, 9577	
41	465 bp	1070 bp	*15010101-150104, 150106-1508, 151101-1516, 151801-1519, 1521, 1523-1529, 1531-1536, 153801-1540, 1543, 1544, 1546, 1547, 1549-1557, 1560-1562, 1564-1572, 1574-1576, 157801-1582, 1584, 1585, 1587-1589, 1591-1598, 9501-9529, 9531, 9532, 9534-9536, 9538-9549N, 9551-9561, 9563-9567, 9569-9576, 9578	*460101-4610, 4612-4617, 4619-4622
42²³	345 bp, 460 bp	1070 bp	*150201-150303, 1505, 1506, 1509, 1510, 1513, 1516-151803, 1521, 1523, 152501, 152502, 1529, 1531, 1536, 1537, 1539, 1540, 1544, 1548, 1552, 1555, 1561, 1562, 1564, 1567, 1569, 1572-1574, 1580, 1586, 1588 ^w , 1589-1591, 1593, 1595, 1598, 9503, 9506-9508, 9512, 9514, 9515, 9519, 9521, 9523, 9524, 9527, 9531-9534, 9536, 9538, 9539, 9551, 9553, 9555,	*4606, 4608, 4611, 461301, 461302, 4618, 4619, 4621

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			9556, 9558, 9561, 9562, 9570, 9573, 9576 ^w , 9577	
43	525 bp	1070 bp	*1504, 1516, 1567, 1583, 1595, 9537, 9555	*4611, 4618
44	515 bp	1070 bp	*15010101-150104, 150106-150112, 150301- 150303, 1505, 1507- 151102, 151104, 1512, 1514, 1515, 15170101- 151801, 151803, 1519, 1523, 1524, 1526N ^w , 1528-1531, 1533-1535, 1537-1540, 1543, 1545- 1558, 1560, 1561, 1563- 1566, 1568-1576, 157801-1579N, 1581, 1582, 1587, 1590-1594N, 1596-1599, 9501-9505, 9507, 9508, 9511N, 9513-9520, 9522-9528, 9531-9536, 9538, 9540- 9543, 9545-9553, 9556- 9569, 9571-9578	*460101-4610, 4612- 4617, 4619-4622
45	475 bp	1070 bp	*15010101-150104, 150106-150112, 150301- 1505, 1507-1512, 1514- 1516, 151801-1519, 1523, 1524, 1526N-1530, 1532-1535, 1537-1540, 1543, 1545-1554, 1556- 1558, 1560-1576, 157801-1587, 1590-1599, 9501-9505, 9507-9511N, 9513-9520, 9522-9527, 9529, 9531-9536, 9538, 9540-9543, 9545-9555, 9557-9561, 9563-9567, 9569, 9571-9576, 9578	*460101-4622
46	355 bp	800 bp	*15010101-150104, 150106-1504, 1506-1519, 1521, 1523-1530, 1532- 1540, 1543-1547, 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,	*460101-4605, 4607N, 4608, 4610, 4612, 4614- 4617, 4620, 4622

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			9525-9529, 9531-9535, 9537-9544, 9546-9550, 9552-9554, 9556-9561, 9563-9575, 9577, 9578	
47	320 bp	1070 bp	*15010101-150104, 150106-1519, 1521, 1523-1539, 1543, 1545, 1546, 1548, 1551, 1553- 1558, 1560-1568, 1570- 1582, 1584, 1585, 1587- 1592, 1594N-1599, 9501- 9513, 9515, 9516, 9518- 9520, 9522, 9523, 9525- 9529, 9531-9537, 9539- 9578	*460101-4602, 4604, 4605, 4607N-4617, 4619, 4620, 4622
48	420 bp	1070 bp	*15010101-150104, 150106-1519, 1521, 1523-1532, 1534-1540, 1543-1558, 1560-1571, 1573-1577, 1579N-1599, 9501-9506, 9508-9515, 9517-9529, 9531-9540, 9542-9549N, 9551-9578	*460101-4605, 4607N- 4622
49⁵	135 bp	1070 bp	*1557, 9535	
50⁵	85 bp	1070 bp	*1567	
51⁵	135 bp	1070 bp	*1598, 9509, 9563	
52⁸	345 bp	800 bp	*1592	
53	210 bp	800 bp	*1596	
54	410 bp	800 bp	*1597	
55	250 bp	1070 bp	*9502	
56⁵	70 bp	1070 bp	*9503	
57	345 bp	1070 bp	*9511N	
58	170 bp	1070 bp	*9513	
59	420 bp	800 bp	*1594N	
60	385 bp	800 bp	*9520	
61²⁴	160 bp, 205 bp	1070 bp	*9525, 9575	*4422
62⁵	105 bp	1070 bp	*9526	
63	175 bp	1070 bp	*9527	
64	365 bp	800 bp	*9522	Cw*0348
65	520 bp	1070 bp	*9529	
66	430 bp	1070 bp	*150201, 150202, 1513, 1520, 1521, 152501, 152502, 1536, 1544, 1577, 1585, 1588, 1589,	*130101, 130102, 1306, 1307N, 1312, 1313, 1317, 1320-1323, 1325, 1326, 1328, 1329, 3546,

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			9512, 9518, 9521, 9539, 9544, 9554	4408, 4457, 4460, 570101-5710, 5712- 5715, 5717-5726
67	300 bp	800 bp	*9532	
68	215 bp	1070 bp	*9534	
69⁵	130 bp	1070 bp	*1557	
70	185 bp	1070 bp	*9538	*0768, 1835, 3566, 4077, 4087, 4812, 4814
71	400 bp	1070 bp	*9539	
72	295 bp	1070 bp	*9540	
73⁵	110 bp	1070 bp	*9542	*0729, 5168
74⁵	75 bp	800 bp	*9545, 9576	
75	280 bp	1070 bp	*9546	
76	475 bp	1070 bp	*150201, 150202, 1506, 1513, 15170101-151702, 1521, 152501, 152502, 1531, 1536, 1544, 1555, 1577, 1588, 1589, 9506, 9512, 9521, 9528, 9537, 9539, 9544, 9556, 9562, 9568, 9570, 9577	
77	195 bp	1070 bp	*9504	
78	385 bp	1070 bp	*9547	
79	420 bp	800 bp	*9548	
80⁵	85 bp	1070 bp	*9549N	
81⁸	395 bp	1070 bp	*151101-151104, 9543, 9548, 9549N, 9552	
82⁵	80 bp	1070 bp	*1581	
83⁸	210 bp	1070 bp	*9559	*0723, 4079
84	155 bp	1070 bp	*9567	
85²⁵	340 bp, 420 bp	1070 bp	*9557, 9564	
86	230 bp	1070 bp	*9566	
87	295 bp	1070 bp	*9569	
88²⁶	240 bp, 445 bp	1070 bp	*9558, 9571	
89	370 bp	1070 bp	*9560	
90	195 bp	800 bp	*9573	
91	325 bp	1070 bp	*9570	
92	155 bp	1070 bp	*9572	
93	295 bp	1070 bp	*9577	
94²⁷	285 bp, 325 bp	1070 bp	*9523, 9578	
95	395 bp	1070 bp	*1540, 1547, 1549, 1552, 9514, 9517, 9524, 9538	*4606

96	185 bp	1070 bp	*9574
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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*15 SSP typings.

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

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

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

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

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

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

Well number 1 contains the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to help in the correct orientation of the HLA-B*15 subtyping.

In addition, wells number 4, 10, 13, 19, 22, 36, 39, 46, 52, 53, 54, 59, 60, 64, 67, 74, 79 and 90 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. We also assume that the B*15- and B*46-specific sequence motifs in the 2nd and 3rd intron is conserved within the HLA-B*15 and HLA-B*46 groups of alleles.

⁴Due to the sharing of sequence motifs between HLA-B alleles, non-HLA-B*15 alleles will be amplified by many HLA-B*15 primer mixes. In addition, the Cw*0620 allele will be amplified by primer mix 3, the Cw*0746 allele will be amplified by primer mix 7, the Cw*0203 allele will be amplified by primer mix 9, the Cw*1515 allele will be amplified by primer mix 22, the Cw*0527 allele will be amplified by primer mix 27, the Cw*0768 allele will be amplified by primer mix 34, the Cw*1508 allele will be amplified by primer mix 37 and the Cw*0348 allele will be amplified by primer mix 64.

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

⁶The specific primer pairs in primer mix 38 may give rise to less specific PCR product than the other HLA-B15 primer mixes.

⁷Primer mixes 11, 20, 22, 31, 32 and 34 might have a tendency of giving rise to primer dimer artifacts.

⁸Primer mixes 5, 11, 19, 23, 24, 33, 34, 52, 81 and 83 might give rise to non-specific amplifications.

⁹Primer solution 10: Specific PCR fragment of 300 bp in the B*1537 to 153802 alleles. Specific PCR fragment of 520 bp in the B*1506, 152701-152703, 1584, 9509 and 9512 alleles.

¹⁰Primer solution 13: Specific PCR fragment of 395 bp in the B*1509, 1510, 151801-151803, 1521, 1523, 1537, 1544, 1551, 1552, 1566, 1572, 1580, 1590, 1593, 1599, 9508, 9514, 9515, 9519, 9524, 9533, 9534, 9553, 9561, 9576 alleles. Specific PCR fragment of 435 bp in the B*1579N allele.

¹¹Primer mix 14: Specific PCR fragment of 465 bp in B*1509, 1510, 1530, 1537, 1545, 1548, 1563, 1583, 1590, 1599 and 9550 alleles. Specific PCR fragment of 515 bp in the B*9510 allele.

¹²Primer mix 16: Specific PCR fragment of 120 bp in the B*9516 and B*9524 and the B*4052, B*4059 and B*4606 alleles. Specific PCR fragment of 190 bp in the B*1512 and B*1519 alleles.

¹³Primer mix 20: Specific PCR fragment of 360 bp in B*9505 allele. Specific PCR fragment of 505 bp in the B*1516, 1534, 1562, 1567, 1585, 1586, 1595 and 9537 and the B*4611 and 4618 alleles.

¹⁴Primer solution 21: Specific PCR fragment of 205 bp in the B*1516, 1567 and 1595 alleles. Specific PCR fragment of 425 bp in the B*1543 allele.

¹⁵Primer mix 24: Specific PCR fragment of 205 bp in the B*1526N allele. Specific PCR fragment of 300 bp in the B*1533, 1572, 157801, 157802, 9507, 9516, 9541 and 9550 and the B*4606 alleles.

¹⁶Primer solution 25: Specific PCR fragment of 315 bp in the B*1546, 1553 and B*9506 alleles. Specific PCR fragment of 385 bp in the B*1528 allele.

¹⁷Primer solution 30: Specific PCR fragment of 320 bp in the B*1540, 1547, 1549, 1552, 9514, 9517, 9524 and 9538 and the B*4606 alleles. Specific PCR fragment of 355 bp in the B*1575 allele.

¹⁸Primer mix 31: Specific PCR fragment of 320 bp in the B*1544, 1550, 1569, 1583, 1586, 1593, 9521 and the B*4603, 4618 and 4621 alleles. Specific PCR fragment of 395 bp in the B*9514 and 9553 alleles.

¹⁹Primer solution 33: Specific PCR fragment of 200 bp in the B*9518 allele. Specific PCR fragment of 255 bp in the B*151803, 1542, 1573 and 1586 and the B*4611 and 4618 alleles.

²⁰Primer solution 36: Specific PCR fragment of 360 bp in the B*1582 allele. Specific PCR fragment of 435 bp in the B*1536, B*1589 and 9515 alleles.

²¹Primer solution 39: Specific PCR fragment of 305 bp in the B*1560 allele. Specific PCR fragment of 325 bp in the B*9519 allele. Specific PCR fragment of 380 bp in the B*1595 allele.

²²Primer solution 40: Specific PCR fragment of 220 bp in the B*1571 and B*9575 alleles. Specific PCR fragment of 425 bp in the B*1513, 1516-151702, 1523, 1524, 1567, 1595, 9557, 9562, 9568 and 9577 alleles.

²³Primer mix 42: Specific PCR fragment of 345 bp in the B*150201-150303, 1505, 1506, 1509, 1510, 1513, 1516-151803, 1521, 1523, 152501, 152502, 1529, 1531, 1536, 1537, 1539, 1540, 1544, 1548, 1552, 1555, 1561, 1562, 1564, 1567, 1569, 1572, 1574, 1580, 1588^w, 1589-1591, 1593, 1595, 1598, 9503, 9506-9508, 9512, 9514, 9515, 9519, 9521, 9523, 9524, 9527, 9531-9534, 9536, 9538, 9539, 9551, 9553, 9555, 9556, 9558, 9561, 9562, 9570, 9573, 9576^w and 9577 and the B*4606, 4608, 461301, 461302, 4619 and 4621 alleles. Specific PCR fragment of 460 bp in the B*1573 allele. PCR fragment of 345 and 460 bp in the B* 1586 and the B*4611 and 4618 alleles.

²⁴Primer mix 61: Specific PCR fragment of 160 bp in the B*9575 allele. Specific PCR fragment of 205 bp in the B*9525 and the B*4422 alleles.

²⁵Primer mix 85: Specific PCR fragment of 340 bp in the B*9557 allele. Specific PCR fragment of 420 bp in the B*9564 allele.

²⁶Primer mix 88: Specific PCR fragment of 240 bp in the B*9571 allele. Specific PCR fragment of 445 bp in the B*9558 allele.

²⁷Primer mix 94: Specific PCR fragment of 285 bp in the B*9523 allele. Specific PCR fragment of 325 bp in the B*9578 allele.

^w, might be weakly amplified.

Amplification patterns of the B*15010101 to B*9578 alleles

For *In Vitro* Diagnostic Use.

[illegible]

Lot No.: 65G

Lot-specific information

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Well No.									1		1		1		1		1		1		2		2		2		2		2		3		3		3		3		3		4		4		4		4		4		
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Lot No.: 65G

Lot-specific information

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HLA-B*15:01																																												Well No.
HLA-B allele ³																																												
																																												*153801, 153802
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Lot No.: **65G**

Lot-specific information

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Lot No.: 65G

Lot-specific information

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HLA-B*08:01																																																Well No.
HLA-B allele ³																																																
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Lot No.: **65G**

Lot-specific information

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*0765, 0772, 0786, 5410, 5509, 5537																																				+	+					
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HL A-B allele ³	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8				

Lot No.: 65G

Lot-specific information

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Well No.					
HLA-B allele ³					
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					*9577
					*9578
					*070201-070210, 070212-070217, 0703, 070501, 070502, 0706-0713, 0715, 0716, 071801, 071802, 0721-072202, 0727, 0730-0733, 0735-0742, 0744, 0746, 0747, 0749N-0751, 0753, 0754, 0756-0759, 0761-0764, 0767N, 0769-0771, 0773-0779, 0781-0785, 0787-0795, 0797-0799, 1318, 1821, 3707, 4015, 4016, 4023, 4032, 4098, 4805, 4808, 5182, Cw*1508
					*070211, 070503
					*0720, 0724, 0760, 350801-350804, 3518, 3561, 3580, 3599, 5105, 5129, 5154, 5311, 5316, 5822
					*0723
					*0729
					*0745, 0752, 3908, 3911
					*0748, 1310, 1311, 1810, 1811, 2707, 2711, 2733, 2734, 2743, 3531, 3930, 400101-400103, 400105, 400107-4003, 4007-4011, 4013-401403, 4018-4022N, 4024, 4025, 4027, 4029, 4031, 4033, 4036-4040, 4042, 4045-4050, 4054-4058, 4061, 4062, 4065-4067, 4069, 407201-4074, 4076, 4078, 4080-4082, 4084, 4085, 4088-4091, 4094, 4097, 4431, 4465, 480101, 480102, 480301, 4804, 4806, 4807, 4809-4811, 4813, 4816, 4818, 4820, 5181, 8101-8104N, Cw*0203
					*0765, 0772, 0786, 5410, 5509, 5537

Lot No.: 65G

Lot-specific information

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[illegible]

Lot No.: 65G

Lot-specific information

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Well No.																																															
HLA-B allele ³																																															
*0768																																															
*080101-080109, 0804, 0805, 0807-081203, 0814-0819N, 0822, 0824, 0827, 0829-0834, 0836, 0838, 0839, 0841-0847, 4506, 5412, 5503, 5512, 5516, 5525																																															
*0806, 0820																																															
*0813, 4043																																															
*0821, 5120, 5621																																															
*0825																																															
*0826, 1411, 3904, 5401, 5404, 5405N, 5407, 5408N, 5411, 5413, 5415-5419, 550101-550205, 5505, 5507, 5511, 5514, 5515, 5517, 5519, 5520, 5522, 5524, 5526-5530, 5533-5536, 5538, 5612, 5619N, 8301																																															
*0828, 0835, 0837																																															
*0840																																															
*130101, 130102, 1306, 1307N, 1312, 1313, 1317, 1320-1323, 1325, 1326, 1328, 1329, 4408, 4457, 4460, 570103, 5704, 5705, 5725, 5726																																															
*1303, 350101-350403, 3506, 3507, 350901-3513, 3516, 3517, 3519-3521, 3523-3528, 3530, 3534, 3536, 3538-3542, 3547-3550, 3552-3557, 3559, 3563, 3564, 356801, 3570, 3574, 3575, 3577, 3578, 3581-3585, 3590-3592, 3594, 3595, 3598, 4005, 4028, 4410, 4414, 4445, 4451, 4462, 4477, 4802, 510101-5104, 5107-510902, 5111N, 5112, 5114, 5115, 5119, 5122-512402, 5126-5128, 5130, 5132, 5133, 5135, 5138-5141N, 5143, 5144N, 5146, 5148-5153, 5155-5158, 5160, 5165-5167, 5169-5180, 5183, 5184, 520101-5207, 5209-5213, 5215, 5216, 530101-5306, 5308-5310, 5312, 5313, 5315, 5317-5319, 5607, 5711, 5716, 580101-5802, 5804, 5806, 5808-5815, 5817N, 5819, 5821, 5823, 5824, 5904, 780201, 780202, 7804-7806, 8201, 8202, Cw*1515																																															
*1304, 3537, 4904, 511301, 511302, 5137, 5163, 5214																																															
Well No.																																															
HLA-B allele ³																																															

[illegible]

Lot No.: 65G

Lot-specific information

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Well No.																																															
HLA-B allele ³																																															
*1405, 1413																																															
*140601, 1815, 3948, 4051																																															
*180101-180105, 1803-180702, 1809, 1812, 1817N, 1820, 1823N-1826, 1828, 1829, 1831-1834, 1837-1845, 3943																																															
*1813																																															
*1814																																															
*1819																																															
*1830																																															
*1835, 4077, 4087																																															
*1836																																															
*2725, 3586, 4505, Cw*0620																																															
*2732, 4035, 4454																																															
*3505, 3522, 3551, 3572, 3589, 3597, 4071, 5314, 5818																																															
*351401, 351402, 3543, 3562, 3567, 3579																																															
*3529, 3569, 3576, 5403, 560101, 560102, 560501-5606, 5608, 5609, 5611, 5613-5617, 5620, 5624-5626, 7801, 7803																																															
*3532, 356802, 4063, 4092, 4482, 5816																																															
*3544, 5161																																															
*3545																																															
*3546, 570101, 570102, 570104, 570105, 570301, 570302, 5706-5710, 5714, 5715, 5717, 5718, 5720-5723																																															
*3558																																															
*3566																																															
*3571, 4443, 5807																																															
*3819, 3903, 3914, 3924, 3929, 3937, 4210																																															
*390601, 390602, 3934, 3950, 4086, 4502, 4905, 5009, 5903, 7301																																															
*3932, 5145, 5162																																															
*3933																																															
*3936																																															
*400106																																															
*4012																																															
*4026, 5159																																															
*4052																																															
*4059																																															
*4079																																															
*4209, Cw*0768																																															
*4417																																															
*4422																																															
*4509																																															
Well No.																																															
HLA-B allele ³																																															

Lot No.: **65G**

Lot-specific information

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Well No.									1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	
HLA-B allele ³	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8						
*460101, 4604, 4607N, 4610, 4614-4616, 4620, 4622	+	+																			+									+		+		+	+	+	+	+	+	+	+			
*460102, 4602, 4605	+	+																			+										+		+		+	+	+	+	+	+	+	+		
*4603	+																														+	+		+	+	+	+	+	+	+	+	+		
*4606	+							+						+						+										+		+	+	+	+	+	+	+	+	+	+	+		
*4608	+																				+										+		+	+	+	+	+	+	+	+	+	+		
*4609	+	+																			+										+		+	+	+	+	+	+	+	+	+	+		
*4611	+																		+		+								+		+		+	+	+	+	+	+	+	+	+	+		
*4612	+	+									+		+								+										+		+		+	+	+	+	+	+	+	+	+	
*461301, 461302	+							+													+										+		+	+	+	+	+	+	+	+	+	+	+	
*4617	+	+																	+												+		+		+	+	+	+	+	+	+	+	+	
*4618	+																		+		+								+	+		+		+	+	+	+	+	+	+	+	+		
*4619	+																				+									+		+		+	+	+	+	+	+	+	+	+		
*4621	+							+																						+		+		+	+	+	+	+	+	+	+	+	+	
*4812, 4814								+		+																																	+	
*4819																																	+											
*5106																					+							+																
*5164											+		+								+							+																
*5168																					+																							
*5406, 5603		+																			+											+												
*5409, 5504, 5610, 5618								+																								+												
*5414, 5513, 5523, 5532								+																								+												
*5508, 5602, 5604								+													+											+												
*5521		+																															+											
*5622								+													+												+											
*5702, 5712, 5719																					+											+												
*5713																																+												
*5724																					+												+											
Cw*0348																																												
Cw*0527																																												
Cw*0746							+																																					
Well No.									1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	
HLA-B allele ³	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8						

Well No.																																HLA-B allele ³
HLA-B allele ³																																
																																*460101, 4604, 4607N, 4610, 4614-4616, 4620, 4622
																																*460102, 4602, 4605
																																*4603
																																*4606
																																*4608
																																*4609
																																*4611
																																*4612
																																*461301, 461302
																																*4617
																																*4618
																																*4619
																																*4621
																																*4812, 4814
																																*4819
																																*5106
																																*5164
																																*5168
																																*5406, 5603
																																*5409, 5504, 5610, 5618
																																*5414, 5513, 5523, 5532
																																*5508, 5602, 5604
																																*5521
																																*5622
																																*5702, 5712, 5719
																																*5713
																																*5724
																																Cw*0348
																																Cw*0527
																																Cw*0746
Well No.																																HLA-B allele ³

¹Primer solution 10: Specific PCR fragment of 300 bp in the B*1537 to 153802 alleles. Specific PCR fragment of 520 bp in the B*1506, 152701-152703, 1584, 9509 and 9512 alleles.

Primer solution 13: Specific PCR fragment of 395 bp in the B*1509, 1510, 151801-151803, 1521, 1523, 1537, 1544, 1551, 1552, 1566, 1572, 1580, 1590, 1593, 1599, 1508, 9514, 9515, 9519, 9524, 9533, 9534, 9553, 9561, 9576 alleles. Specific PCR fragment of 435 bp in the B*1579N allele.

Primer mix 14: Specific PCR fragment of 465 bp in B*1509, 1510, 1530, 1537, 1545, 1548, 1563, 1583, 1590, 1599 and 9550 alleles. Specific PCR fragment of 515 bp in the B*9510 allele.

Primer mix 16: Specific PCR fragment of 120 bp in the B*9516 and B*9524 and the B*4052, B*4059 and B*4606 alleles. Specific PCR fragment of 190 bp in the B*1512 and B*1519 alleles.

Primer mix 20: Specific PCR fragment of 360 bp in B*9505 allele. Specific PCR fragment of 505 bp in the B*1516, 1534, 1562, 1567, 1585, 1586, 1595 and 9537 and the B*4611 and 4618 alleles.

Primer solution 21: Specific PCR fragment of 205 bp in the B*1516, 1567 and 1595 alleles. Specific PCR fragment of 425 bp in the B*1543 allele.

Primer mix 24: Specific PCR fragment of 205 bp in the B*1526N allele. Specific PCR fragment of 300 bp in the B*1533, 1572, 157801, 157802, 9507, 9516, 9541 and 9550 and the B*4606 alleles.

Primer solution 25: Specific PCR fragment of 315 bp in the B*1546, 1553 and B*9506 alleles. Specific PCR fragment of 385 bp in the B*1528 allele.

Primer solution 30: Specific PCR fragment of 320 bp in the B*1540, 1547, 1549, 1552, 9514, 9517, 9524 and 9538 and the B*4606 alleles. Specific PCR fragment of 355 bp in the B*1575 allele.

Primer mix 31: Specific PCR fragment of 320 bp in the B*1544, 1550, 1569, 1583, 1586, 1593, 9521 and the B*4603, 4618 and 4621 alleles. Specific PCR fragment of 395 bp in the B*9514 and 9553 alleles.

Primer solution 33: Specific PCR fragment of 200 bp in the B*9518 allele. Specific PCR fragment of 255 bp in the B*151803, 1542, 1573 and 1586 and the B*4611 and 4618 alleles.

Primer solution 36: Specific PCR fragment of 360 bp in the B*1582 allele. Specific PCR fragment of 435 bp in the B*1536, B*1589 and 9515 alleles.

Primer solution 39: Specific PCR fragment of 305 bp in the B*1560 allele. Specific PCR fragment of 325 bp in the B*9519 allele. Specific PCR fragment of 380 bp in the B*1595 allele.

Primer solution 40: Specific PCR fragment of 220 bp in the B*1571 and B*9575 alleles. Specific PCR fragment of 425 bp in the B*1513, 1516-151702, 1523, 1524, 1567, 1595, 9557, 9562, 9568 and 9577 alleles.

Primer mix 42: Specific PCR fragment of 345 bp in the B*150201-150303, 1505, 1506, 1509, 1510, 1513, 1516-151803, 1521, 1523, 152501, 152502, 1529, 1531, 1536, 1537, 1539, 1540, 1544, 1548, 1552, 1555, 1561, 1562, 1564, 1567, 1569, 1572, 1574, 1580, 1588^w, 1589-1591, 1593, 1595, 1598, 9503, 9506-9508, 9512, 9514, 9515, 9519, 9521, 9523, 9524, 9527, 9531-9534, 9536, 9538, 9539, 9551, 9553, 9555, 9556, 9558, 9561, 9562, 9570, 9573, 9576^w and 9577 and the B*4606, 4608, 461301, 461302, 4619 and 4621 alleles. Specific PCR fragment of 460 bp in the B*1573 allele. PCR fragment of 345 and 460 bp in the B* 1586 and the B*4611 and 4618 alleles.

Primer mix 61: Specific PCR fragment of 160 bp in the B*9575 allele. Specific PCR fragment of 205 bp in the B*9525 and the B*4422 alleles.

Primer mix 85: Specific PCR fragment of 340 bp in the B*9557 allele. Specific PCR fragment of 420 bp bp in the B*9564 allele.

Primer mix 88: Specific PCR fragment of 240 bp in the B*9571 allele. Specific PCR fragment of 445 bp in the B*9558 allele.

Primer mix 94: Specific PCR fragment of 285 bp in the B*9523 allele. Specific PCR fragment of 325 bp in the B*9578 allele.

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*15 subtyping. .

In addition, wells number 4, 10, 13, 19, 22, 36, 39, 46, 52, 53, 54, 59, 60, 64, 67, 74, 79 and 90 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.

³The sequence of B*150105 has been renamed to B*9520.

The sequence of B*1522 has been named in error and identical to B*3543.

The sequence of B*1541 has been shown to be in error and identical to B*1539.

The sequence of B*1559 has been named in error B*3544.

The sequence of B*9530 has been renamed to B*152702.

w', might be weakly amplified.

Primers

Well No.	1	2	3	4	5	6	7	8	9	10	11	12
5'-primer(s) ¹	45 5' -ggA 3'	45 5' -ggA 3'	463 5' -TgA 3'	45 5' -ggA 3'	45 5' -ggA 3'	355 5' -TCA 3'	45 5' -ggA 3'	357 5' -Tgg 3'	369 5' -TAC 3'	360 5' -CAC 3'	363 5' -AgC 3'	45 5' -ggA 3'
										368 5' -gTT 3'		
										583 5' -gAC 3'		
3'-primer(s) ²	272 5' -Tgg 3'	165 5' -Tgg 3'	538 5' -CCA 3'	1 st I 5' -gAC 3'	259 5' -gTT 3'	3 rd I 5' -ATC 3'	206 5' -CCT 3'	419 5' -Cgg 3'	527 5' -CCA 3'	3 rd I 5' -ATC 3'	463 5' -gCT 3'	272 5' -TgA 3'
			545 5' -AgA 3'					419 5' -CgA 3'				287 5' -TCC 3'
Well No.	1	2	3	4	5	6	7	8	9	10	11	12

Well No.	13	14	15	16	17	18	19	20	21	22	23	24
5'-primer(s) ¹	45 5' -ggA 3'	368 5' -gTg 3'	369 5' -TAC 3'	419 5' -gTC 3'	45 5' -ggA 3'	419 5' -gTC 3'	45 5' -ggA 3'	379 5' -ACC 3'	45 5' -ggA 3'	409 5' -ggC 3'	821 5' -gCT 3'	2 nd I 5' -CAA 3'
		419 5' -gTA 3'						523 5' -CCT 3'				
3'-primer(s) ²	272 5' -TgC 3'	3 rd I 5' -ATC 3'	435 5' -TCT 3'	499 5' -ggA 3'	309 5' -ATC 3'	572 5' -gCg 3'	266 5' -TCC 3'	3 rd I 5' -ATC 3'	83 5' -TgA 3'	559 5' -CAg 3'	916 5' -gAT 3'	369 5' -CCT 3'
	311 5' -ggT 3'			570 5' -CCg 3'			278 5' -TgA 3'		301 5' -gTC 3'			463 5' -gCg 3'
Well No.	13	14	15	16	17	18	19	20	21	22	23	24

Well No.	25	26	27	28	29	30	31	32	33	34	35	36
5'-primer(s) ¹	45 5' -ggA 3'	368 5' -gTC 3'	485 5' -CAA 3'	362 5' -gAC 3'	369 5' -TAC 3'	526 5' -gTC 3'	488 5' -ggg 3'	2 nd I 5' -CAA 3'	2 nd I 5' -CAA 3'	419 5' -gTC 3'	412 5' -ATA 3'	45 5' -ggA 3'
						560 5' -CgA 3'	560 5' -CAC 3'					
3'-primer(s) ²	193 5' -CgT 3'	558 5' -Agg 3'	559 5' -CAg 3'	559 5' -CAg 3'	583 5' -gTg 3'	3 rd I 5' -ATC 3'	3 rd I 5' -ATC 3'	544 5' -ggT 3'	362 5' -TCA 3'	538 5' -gTC 3'	538 5' -CCA 3'	238 5' -CCT 3'
	263 5' -gTA 3'								420 5' -gCT 3'			309 5' -gTg 3'
Well No.	25	26	27	28	29	30	31	32	33	34	35	36

Well No.	37	38	39	40	41	42	43	44	45	46	47	48
5'-primer(s) ¹	409 5' -ggC 3'	106 5' -CCA 3'	45 5' -ggA 3'	45 5' -ggA 3'	419 5' -gTC 3'	420 5' -TTA 3'	357 5' -Tgg 3'	369 5' -TAC 3'	409 5' -ggC 3'	527 5' -TgA 3'	560 5' -CCT 3'	463 5' -TgA 3'
						539 5' -gCT 3'						
3'-primer(s) ²	538 5' -CCg 3'	292 5' -gTC 3'	181 5' -gTT 3'	97 5' -gTg 3'	3 rd I 5' -ATC 3'	3 rd I 5' -ATC 3'	3 rd I 5' -ATC 3'	3 rd I 5' -ATC 3'	3 rd I 5' -ATC 3'	3 rd I 5' -ATC 3'	3 rd I 5' -ATC 3'	3 rd I 5' -ATC 3'
			203 5' -CTg 3'	302 5' -ggT 3'								
			257 5' -CCT 3'									
Well No.	37	38	39	40	41	42	43	44	45	46	47	48

Well No.	49	50	51	52	53	54	55	56	57	58	59	60
5'-primer(s) ¹	209	463	106	45	419	45	3 rd	25	539	145	45	45
	5' -ggC 3'	5' -TgA 3'	5' -CCA 3'	5' -ggA 3'	5' -gTC 3'	5' -ggA 3'	5' -Agg 3'	5' -CCg 3'	5' -gTg 3'	5' -CAA 3'	5' -ggA 3'	5' -ggA 3'
	302	506	200	221	589	288	779	56	3 rd	272	295	261
	5' -ggT 3'	5' -TgT 3'	5' -TCA 3'	5' -ATA 3'	5' -CTT 3'	5' -gTg 3'	5' -CTA 3'	5' -TCg 3'	5' -ATC 3'	5' -Tgg 3'	5' -TCA 3'	5' -gTA 3'
3'-primer(s) ²			200									
			5' -TCA 3'									
Well No.	49	50	51	52	53	54	55	56	57	58	59	60

Well No.	61	62	63	64	65	66	67	68	69	70	71	72
5'-primer(s) ¹	106	363	419	45	363	209	45	419	209	463	45	754
	5' -CCg 3'	5' -AgC 3'	5' -gTC 3'	5' -ggA 3'	5' -AAT 3'	5' -ggC 3'	5' -ggA 3'	5' -gTC 3'	5' -ggC 3'	5' -TgA 3'	5' -ggA 3'	5' -ACg 3'
	151					209						
	5' -gCC 3'					5' -ggC 3'						
3'-primer(s) ²	272	425	554	242	3 rd	353	177	593	299	605	277	916
	5' -Tgg 3'	5' -CgC 3'	5' -CCg 3'	5' -CCA 3'	5' -ATC 3'	5' -TgA 3'	5' -AAA 3'	5' -CgC 3'	5' -TCA 3'	5' -gCT 3'	5' -ggC 3'	5' -gAT 3'
						362						
						5' -TCA 3'						
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

Well No.	73	74	75	76	77	78	79	80	81	82	83	84
5'-primer(s) ¹	97	523	769	409	3 rd	495	45	267	45	106	322	446
	5' -TCg 3'	5' -CCg 3'	5' -Agg 3'	5' -ggT 3'	5' -Agg 3'	5' -CAC 3'	5' -ggA 3'	5' -Ag 3'	5' -ggA 3'	5' -CCA 3'	5' -gCC 3'	5' -CgT 3'
3'-primer(s) ²	165	559	916	3 rd	723	3 rd	296	311	272	146	2 nd	559
	5' -Tgg 3'	5' -CAg 3'	5' -gAT 3'	5' -ATC 3'	5' -Tgg 3'	5' -ATC 3'	5' -CTT 3'	5' -ggT 3'	5' -TgT 3'	5' -CCg 3'	5' -TCg 3'	5' -CAg 3'
Well No.	73	74	75	76	77	78	79	80	81	82	83	84

Well No.	85	86	87	88	89	90	91	92	93	94	95	96
5'-primer(s) ¹	45	2 nd	2 nd	45	45	463	45	463	45	2 nd	2 nd	463
	5' -ggA 3'	5' -CAA 3'	5' -CAA 3'	5' -ggA 3'	5' -ggA 3'	5' -TgA 3'	5' -ggA 3'	5' -TgA 3'	5' -ggA 3'	5' -CAA 3'	5' -CAA 3'	5' -TgA 3'
										767		
										5' -ggg 3'		
3'-primer(s) ²	218	394	457	118	247	616	203	578	173	487	559	605
	5' -gCA 3'	5' -gCT 3'	5' -gTA 3'	5' -gCT 3'	5' -ATg 3'	5' -CgT 3'	5' -TCT 3'	5' -TgT 3'	5' -TCC 3'	5' -CgT 3'	5' -CTC 3'	5' -gCA 3'
	296			323						916		
	5' -CTg 3'			5' -AgA 3'						5' -gAT 3'		
Well No.	85	86	87	88	89	90	91	92	93	94	95	96

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

²The nucleotide position, in the 2nd, 3rd or 5th exons or the 1st or 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. We assume that the B*15- and B*46-specific sequence motifs in the 2nd and 3rd intron are conserved within the HLA-B*15 and HLA-B*46 groups of alleles.

[illegible]

CELL LINE VALIDATION SHEET																																	
HLA-B*15 SSP subtyping kit																																	
					Well																												
						17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32												
				Prod. No.:		200849917	200849918	200849919	200849920	200967221	200849922	200849923	200849924	200849925	200849926	200849927	200849928	200849929	200849930	200849931	200849932												
	IHCW 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	9025	DEU	*3501			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-											
9	9026	YAR	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
10	9107	LKT3	*5401			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
11	9051	PITOUT	*4403			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
12	9052	DBB	*5701			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-											
13	9004	JESTHOM	*2705			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
14	9071	OLGA	*1501		*1520	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-											
15	9075	DKB	*4001			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
16	9037	SWEIG007	*4002			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
17	9282	CTM3953540	*0801		*5501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
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	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-											

CELL LINE VALIDATION SHEET																					
HLA-B*15 SSP subtyping kit																					
					Well																
						33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
				Prod. No.:		200849933	200849934	200849935	200967236	200849937	200849938	200849939	200967240	200849941	200849942	200849943	200967244	200967245	200849946	200849947	200849948
	IHCW 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	9025	DEU	*3501			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	9026	YAR	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	9107	LKT3	*5401			-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
11	9051	PITOUT	*4403			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	9052	DBB	*5701			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	9004	JESTHOM	*2705			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	9071	OLGA	*1501	*1520		-	-	-	-	-	-	-	-	+	+	-	+	+	+	+	
15	9075	DKB	*4001			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	9037	SWEIG007	*4002			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	9282	CTM3953540	*0801	*5501		-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
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		-	-	-	-	W	-	-	-	-	-	-	-	-	-	-	
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		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

CELL LINE VALIDATION SHEET																				
HLA-B*15 SSP subtyping kit																				
					Well															
					49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
				Prod. No.:	200849949	200849950	200967251	200849952	200849953	200849954	200849955	200849956	200849957	200849958	200967259	200849960	200967261	200849962	200849963	200849964
	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	9025	DEU	*3501			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*5401			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*4403			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*5701			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*2705			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*1501		*1520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*4001			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*4002			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*0801		*5501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET																				
HLA-B*15 SSP subtyping kit																				
					Well															
					65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
				Prod. No.:	200849965	200967266	200849967	200849968	200849969	200849970	200967271	200849972	200849973	200849974	200849975	200849976	200849977	200849978	200967279	200967280
	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	9025	DEU	*3501			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*3801			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*5401			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*4403			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*5701			-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*2705			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*1501		*1520	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*4001			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*4002			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*0801		*5501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CELL LINE VALIDATION SHEET																				
HLA-B*15 SSP subtyping kit																				
					Well															
					81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
				Prod. No.:	200967281	200967282	200967283	200967284	200967285	200967286	200967287	200967288	200967289	200967290	200967291	200967292	200967293	200967294	200967295	200967296
	IHCW 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	9025	DEU	*3501		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9026	YAR	*3801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	9107	LKT3	*5401		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	9051	PITOUT	*4403		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	9052	DBB	*5701		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	9004	JESTHOM	*2705		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	9071	OLGA	*1501	*1520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	9075	DKB	*4001		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	9037	SWEIG007	*4002		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	9282	CTM3953540	*0801	*5501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CERTIFICATE OF ANALYSIS**Olerup SSP® HLA-B*15 SSP**

Product number:

101.516-24/04 – including *Taq* pol.

Lot number:

65G

Expiry date:

2012-January-01

Number of tests:

24 tests – Product No. 101.516-24

4 tests – Product No. 101.516-04

Number of wells per test:

96

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2009-672-01	33	2008-499-33	65	2008-499-65
2	2009-672-02	34	2008-499-34	66	2009-672-66
3	2008-499-03	35	2008-499-35	67	2008-499-67
4	2009-672-04	36	2009-672-36	68	2008-499-68
5	2008-499-05	37	2008-499-37	69	2008-499-69
6	2008-499-06	38	2008-499-38	70	2008-499-70
7	2009-672-07	39	2008-499-39	71	2009-672-71
8	2008-499-08	40	2009-672-40	72	2008-499-72
9	2008-499-09	41	2008-499-41	73	2008-499-73
10	2008-499-10	42	2008-499-42	74	2008-499-74
11	2008-499-11	43	2008-499-43	75	2008-499-75
12	2008-499-12	44	2009-672-44	78	2008-499-76
13	2009-672-13	45	2009-672-45	77	2008-499-77
14	2008-499-14	46	2008-499-46	78	2008-499-78
15	2008-499-15	47	2008-499-47	79	2009-672-79
16	2008-499-16	48	2008-499-48	80	2009-672-80
17	2008-499-17	49	2008-499-49	81	2009-672-81
18	2008-499-18	50	2008-499-50	82	2009-672-82
19	2008-499-19	51	2009-672-51	83	2009-672-83
20	2008-499-20	52	2008-499-52	84	2009-672-84
21	2009-672-21	53	2008-499-53	85	2009-672-85
22	2008-499-22	54	2008-499-54	86	2009-672-86
23	2008-499-23	55	2008-499-55	87	2009-672-87
24	2008-499-24	56	2008-499-56	88	2009-672-88
25	2008-499-25	57	2008-499-57	89	2009-672-89
26	2008-499-26	58	2008-499-58	90	2009-672-90
27	2008-499-27	59	2009-672-59	91	2009-672-91
28	2008-499-28	60	2008-499-60	92	2009-672-92
29	2008-499-29	61	2009-672-61	93	2009-672-93
30	2008-499-30	62	2008-499-62	94	2009-672-94
31	2008-499-31	63	2008-499-63	95	2009-672-95
32	2008-499-32	64	2008-499-64	96	2009-672-96

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

Lot No.: **65G**

Lot-specific information

www.olerup-ssp.com

No DNAs carrying the alleles to be amplified by primer solutions 4, 10, 18, 24 to 27, 30 to 34, 36, 39, 49 to 65, 67 to 75, 77 to 80 and 82 to 96 were available. The specificities of the primers in primer solutions 10, 18, 24 to 27, 30, 3, 33, 34, 36, 49, 53, 61, 65, 70, 73, 94 and 95 were tested by separately adding one additional 5'-primer, respectively one additional 3'-primer.

In primer solutions 4, 32, 39, 50 to 52, 54 to 56, 59, 60, 62 to 64, 67 to 69, 71, 77, 79, 82, 85 to 93 and 96 it was only possible to test the 5'-primers, the 3'-primers were not possible to test. In primer solutions 57, 58, 72, 74, 75, 78, 80, 83 and 84 it was only possible to test the 3'-primers, the 5'-primers were not possible to test. Additional 3'-primers in primer solutions 3, 12, 13, 19, 21, 24, 25, 33, 36 and 94 were not possible to test. Additional 5'-primers in primer solutions 10, 14, 20, 30, 31, 61 and 94 were not possible to test.

Additional primers in primer solutions 16, 40 and 42 were tested by separately adding one additional 5'-primer or one additional 3'-primer.

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

Date of approval: 2010-July-16

Approved by:

Quality Control, Supervisor

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*15
Product number: 101.516-24/04
Lot number: 65G

Intended use: HLA-B*15 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 9001:2008 and ISO 13485:2003, following the provisions of the 98/79/EC Directive on *in vitro* diagnostic medical devices, Annex II List B, conformity assessed using Annex IV, as transposed into the national laws of the Member States of the European Union.

The Technical Documentation File is maintained at *Olerup* SSP AB, 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
2010-July-16

Olle Olerup

Lot No.: **65G**

Lot-specific information

www.olerup-ssp.com

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E-mail: info-ssp@olerup.com

Web page: <http://www.olerup-ssp.com>

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Tel: +43-1-710 15 00

Fax: +43-1-710 15 00 10

E-mail: support-at@olerup.com

Web page: <http://www.olerup-ssp.com>

Olerup Inc., 901 S. Bolmar St., Suite R, West Chester, PA 19382

Tel: 1-877-OLERUP1

Fax: 610-344-7989

E-mail: info.us@olerup.com

Web page: <http://www.olerup-ssp.com>

For information on *Olerup* SSP distributors worldwide, contact **Olerup GmbH**.