Olerup SSP® HLA-B*15

Product number:	**101.516-24u/04u – without *Taq* pol.**
Lot number:	**97E**
Expiry date:	**2010-September-01**
Number of tests:	**24 tests – Product No. 101.516-24u**
	4 tests – Product No. 101.516-04u
Number of wells per test:	**80**
Storage - pre-aliquoted primers:	**dark at -20°C**
- PCR Master Mix:	**-20°C**

This Product Description is only valid for Lot No. 97E.

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. X89)**.

Thirty-two wells have been added to the HLA-B*15 kit, wells **49 to 80**.

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

Well	5'-primer	3'-primer	rationale
7	Removed	Removed	Primer pair moved to well 50.
9	Removed	Removed	Primer pair moved to well 60.
11	Removed	Removed	Primer pair moved to well 56.
12	Removed	Removed	Primer pair moved to well 65.
14	Removed	Removed	Primer pair moved to well 54.
16	Removed	Removed	Primer pair moved to well 53.
18	Removed	Removed	Primer pair moved to wells 53 and 63.
19	Removed	Removed	Primer pair moved to well 57.
22	Removed	Removed	Primer pair moved to well 52.
27	Removed	Removed	Primer pair moved to well 59.
29	Removed	Removed	Primer pair moved to well 58.
30	Removed	Removed	Primer pair moved to well 55.
32	Removed	Removed	Primer pair moved to well 49.
33	Removed	Removed	Primer pair moved to well 54.
34	Removed	Removed	Primer pair moved to well 51.

35	Removed	Removed	Primer pair moved to well 77.
36	Removed	Removed	Primer pair moved to well 62.
37	Removed	Removed	Primer pair moved to well 61.
49	New	New	Primer pair from well 32.
50	New	New	Primer pair from well 7.
51	New	New	Primer pair from well 34.
52	New	New	Primer pair from well 23.
53	New	New	Primer pair from wells 16 and 18.
54	New	New	Primer pair from well 33.
55	New	New	Primer pair from well 30.
56	New	New	Primer pair from well 11.
57	New	New	Primer pair from well 19.
58	New	New	Primer pair from well 29.
59	New	New	Primer pair from well 27.
60	New	New	Primer pair from well 9.
61	New	New	Primer pair from well 37.
62	New	New	Primer pair from well 36.
63	New	New	Primer pair from well 18.
64	New	New	Primer pair from well 64.
65	New	New	Primer pair from well 12.
66	New	New	New primer pair for the B*1520 allele.
67	New	New	New primer pair for the B*9532 allele.
68	New	New	New primer pair for the B*9534 allele.
69	New	New	New primer pair for the B*1557/9535 alleles.
70	New	New	New primer pair for the B*9538 allele.
71	New	New	New primer pair for the B*9539 allele.
72	New	New	New primer pair for the B*9540 allele.
73	New	New	New primer pair for the B*9542 allele.
74	New	New	New primer pair for the B*9545 allele.
75	New	New	New primer pair for the B*9546 allele.
76	New	New	New primer pair for the B*9528 allele.
77	New	New	Primer pair from well 35.
78	New	New	New primer pair for the B*9547 allele.
79	New	New	New primer pair for the B*9648 allele.
80	New	New	New primer pair for the B*9549N allele.

Changes in revision R01 compared to R00:
1. Length of specific PCR product by primer mix 76 corrected to 515 bp.
Changes in revision R03 compared to R02:
2. Primer mix 14 amplifies the B*1505, 1545, 1555, 1568 and 9526 and the B*4612 alleles.
Change in revision R04 compared to R03:
3. Primer mix 14 amplifies the B*1507 allele, but not the 1505 allele.

PRODUCT DESCRIPTION

HLA-B*15 SSP subtyping

CONTENT
The primer set contains 5'- and 3'-primers for identifying the B*15010101 to B*9549N alleles.

PLATE LAYOUT
Each test consists of 80 PCR reactions in a 96 well cut PCR plate. Wells 81 to 96 are empty.

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**
empty	**empty**	**empty**	**empty**	**empty**	**empty**	**empty**	**empty**
empty	**empty**	**empty**	**empty**	**empty**	**empty**	**empty**	**empty**

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. '97E'.
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*0746 allele will be amplified by primer mix 7, the Cw*0203 allele will be amplified by primer mix 9, the Cw*0348 allele will be amplified by prier mix 64, the Cw*0746 allele will be amplified by primer mix 7, the Cw*1508 allele will be amplified by primer mix 37 and the Cw*1515 allele will be amplified by primer mix 22.

UNIQUELY IDENTIFIED ALLELES
All the HLA-B*15 alleles, i.e. **B*1501 to B*9549N**, recognized by the HLA Nomenclature Committee in July 2008[1] 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 and B*150103 and B*150106 to B*150106 alleles, the B*151101 and B*151102 alleles, the B*15170101 to B*151702 alleles or the B*152701 to B*152703 alleles.

[1]HLA-B alleles listed on the IMGT/HLA web page 2008-July-11, release 2.22.0, www.ebi.ac.uk/imgt/hla.

SPECIFICITY TABLE

HLA-B*15 SSP subtyping

Specificities and sizes of the PCR products of the 80 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[6,7]	395 bp	**800 bp**	15010101-150104, 150106-1507, 1512-1515, 1519, 1520, 1524-1528, 1530-1536, 1538-1540, 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	4012
2[6]	290 bp	1070 bp	15010101-150103, 150106-1502, 1504-1508, 151101-1515, 15170101-151702, 1519-1521, 1524-1528, 1530-1536, 1538-1540, 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, 9535-9549N	460101-4616
3[5]	120 bp	1070 bp	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-	1819, 2725, 351401-351402, 3543, 3544, 3562, 3567, 3579, 3586, 3936, 4505, 460101-4602, 4604, 4605, 4607N, 4609, 4610, 4612, 4614-

			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	4616, 5406, 5521, 5603
4[9]	180, 395 bp	**800 bp**	15010102N, 151101-151103, 9543, 9548, 9549N	
5	385 bp	1070 bp	1502, 1508-151103, 1513, 1515, 1518, 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	
6	565 bp	1070 bp	1502, 1513, 1521, 1525, 1536, 1544, 1562, 1577, 1580, 1585, 1588, 1589, 9506, 9512, 9521, 9539, 9544	
7	330 bp	1070 bp	1503, 1509, 1510, 1518, 1523, 1529, 1537, 1546, 1547, 1549, 1551-1554, 1561, 1562, 1564, 1569, 1572, 1574, 1580, 1590, 1591, 1593, 1598, 1599, 9503, 9506, 9508, 9514, 9515, 9519, 9523, 9524, 9527, 9531-9534, 9543	4012, **Cw*0746**
8[5]	105 bp	1070 bp	1504, 1516, 1567, 1595, 9537	1304, 3537, 390601-390602, 3933, 3934, 4086, 4502, 4509, 4904, 4905, 511301-511302, 5137, 5214, 5414, 5513, 5523, 5532, 5622, 5903, 7301
9	200 bp	1070 bp	1505, 1531, 1552, 1555, 1591, 9507, 9514, 9523, 9524	0748, 0813, 0825, 1310, 1311, 180101-180103, 1803-1807, 1809-1812, 1814,

				1817N, 1820, 1823N-1826, 1828, 1829, 2707, 2711, 2732-2734, 2743, 3505 , 3522, 3531, 3532, 3551, 356802, 3572, 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, 4431, 4606, 4613, 480101-480102, 480301, 4804, 4806, 4807, 4809-4814, 4816, 4818, 5314, 5409, 5504, 5508, 5602, 5604, 5610, 5618, 5816, 5818, 8101-8104N, **Cw*0203**
10[10]	335, 555 bp	**800 bp**	1506, 152701-152703, 1537, 1538, 1584, 9509, 9512	
11[5,8]	140 bp	1070 bp	1507, 1545, 1555, 1568, 9526	1405, 1814, 2732, 3505, 3522, 3551, 3558, 3566, 3572, 3903, 3914, 3924, 3929, 3937, 4035, 4071, 4454, 4612, 4812, 4814, 5314, 5818
12	405 bp	1070 bp	1508, 1529, 1549, 1556	
13[11]	395, 450 bp	**800 bp**	1509, 1510, 1518, 1521, 1523, 1537, 1544, 1551, 1552, 1566, 1572, 1579N, 1580, 1590, 1593, 1599, 9508, 9514, 9515, 9519, 9524, 9533, 9534	
14[12]	500, 550	1070 bp	1507, 1509, 1510, 1530,	4612

	bp		1537, 1545, 1548, 1555, 1563, 1568, 1583, 1590, 1599, 9510, 9526	
15[5]	105 bp	1070 bp	150102, 1509	070503[weakly], 400106, 4026, 5106
16[5,13]	120, 190 bp	1070 bp	1512, 1519, 9516, 9524	4052, 4059, 4606
17	435 bp	1070 bp	1513, 1516-151702, 1523, 1524, 1567, 1587, 1595	
18	200 bp	1070 bp	1514, 1591, 9531	3545, 3571, 4417, 4443, 4509, 5807
19[8]	400 bp	**800 bp**	1516-151702, 1567, 1574, 1595	
20[7,14]	395, 540 bp	1070 bp	1516, 1534, 1562, 1567, 1585, 1586, 1595, 9505, 9537	4611
21[7,15]	210, 425 bp	1070 bp	1516, 1543, 1567, 1595	
22[7]	190 bp	**800 bp**	15010101-150104, 150106-150108, 1503-1505, 1507-151103, 1512[weakly], 1514-1516, 1518, 1519[weakly], 1520, 1523, 1524, 1526N-1530, 1532-1535, 1537-1539, 1543, 1545, 1546, 1548, 1551, 1553, 1554, 1556-1558, 1560-1568, 1570-1576, 1578-1582, 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, 9545-9549N	0720, 0724, 0760, 0821, 0825, 1303, 1304, 350101-351402, 3516-3530, 3532, 3534, 3536-3559, 3561-3564, 3567-3572, 3574-3585, 3590-3592, 3594, 3932, 3933, 4005, 4026, 4028, 4063, 4071, 4092, 4410, 4414, 4417, 4443, 4445, 4451, 4462, 4509, 460101-4602, 4604, 4605, 4607N-4616, 4802, 4904, 510101-510902, 5111N-5115, 5119, 5120, 5122-512402, 5126-5130, 5132, 5133, 5135, 5137-5141N, 5143-5146, 5148-5157, 520101-5207, 5209-5214, 530101-5306, 5308-5316, 5403, 5406, 5508, 5601-5609, 5611, 5613-5617, 5620-5622,

				570101-570102, 5702-570302, 5706-5712, 5714-5717, 580101-5802, 5804, 5806-5819, 7801-7806, 8201, 8202, **Cw*1515**
23[8]	235 bp	1070 bp	1519	
24[8,16]	205, 300 bp	1070 bp	1526N, 1533, 1572, 1578, 9507, 9516, 9541	
25[17]	320, 390 bp	1070 bp	1528, 1546, 1553, 9506	
26	230 bp	1070 bp	1532	
27[5]	115 bp	1070 bp	1533	
28	240 bp	1070 bp	1535, 9541	
29	255 bp	1070 bp	1537, 1538	1405, 140601, 180101-180103, 1803-1807, 1809, 1812-1815, 1817N, 1819, 1820, 1823N-1826, 1828, 1829, 3932, 3943, 4051, 5106, 5145
30[18]	360, 395 bp	1070 bp	1540, 1547, 1549, 1552, 1575, 9514, 9517, 9524, 9538	4606
31[7,19]	360, 430 bp	1070 bp	1544, 1550, 1569, 1583, 1586, 1593, 9514, 9521	4603
32[7]	380 bp	1070 bp	1548, 9508, 9536	
33[8,20]	200, 255 bp	1070 bp	1542, 1573, 1586, 9518	4611
34[7,8,]	160 bp	1070 bp	1551	0828, 0835, 4209, 4417, 4509
35	165 bp	1070 bp	1530, 1558, 1573	3544, 3936, 4819, 5521
36[21]	365, 435 bp	**800 bp**	1536, 1582, 1589, 9515	
37	170 bp	1070 bp	1547, 1549, 1565, 1584, 1599	070201-0703, 070501-0713, 0715, 0716, 071801-071802, 0720-0724, 0727, 0729-0733, 0735-0742, 0744, 0745[weakly], 0746, 0747, 0749N-0751, 0752[weakly], 0753, 0754,

				0756-0765, 0806, 0820, 1318, 1813, 1821, 350801-350803, 3518, 3545, 3561, 3566, 3580, 3707, 3908[weakly], 3911[weakly], 3933, 4015, 4016, 4023, 4032, 4603, 4805, 4808, 5105, 5129, 5154, 5311, 5316, 5410, 5509, 5702, 5712, 5713, **Cw*1508**
38[6]	225 bp	1070 bp	1561, 1570, 1576, 9501	0729[weakly], 0765, 080101-080105[weakly], 0804-0822[weakly], 0824[weakly], 0825[weakly], 0826, 0827-0836[weakly], 3529, 3569, 3576, 3904, 4043[weakly], 4506[weakly], 460101[weakly], 4603[weakly], 4604[weakly], 4606-4616[weakly], 5401, 5403-5415, 550101-550202, 5503[weakly], 5504, 5505, 5507-5509, 5511, 5512[weakly], 5513-5515, 5516[weakly], 5517, 5519-5524, 5525[weakly], 5526-5530, 5532, 5601-5606, 5608-5621, 5622[weakly], 7801, 7803, 8301
39[22]	305, 330, 380 bp	**800 bp**	1560, 1595, 9519	
40[23]	220, 425 bp	1070 bp	1513, 1516-151702, 1523, 1524, 1567, 1571, 1595	
41	500 bp	1070 bp	15010101-150104, 150106-1508, 151101-1516, 1518, 1519, 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,	460101-4610, 4612-4616

			9501-9529, 9531, 9532, 9534-9536, 9538-9549N	
42[24]	380, 500 bp	1070 bp	1502, 1503, 1505, 1506, 1509, 1510, 1513, 1516-1518, 1521, 1523, 1525, 1529, 1531, 1536, 1537, 1539, 1540, 1544, 1548, 1552, 1555, 1561, 1562, 1564, 1567, 1569, 1572-1574, 1580, 1586, 1588[weakly], 1589-1591, 1593, 1595, 1598, 9503, 9506-9508, 9512, 9514, 9515, 9519, 9521, 9523, 9524, 9527, 9531-9534, 9536, 9538, 9539	4606, 4608, 4611, 4613
43	565 bp	1070 bp	1504, 1516, 1567, 1583, 1595, 9537	4611
44	510 bp	1070 bp	15010101-150104, 150106-150108, 1503, 1505, 1507-151102, 1512, 1514, 1515, 15170101-1519, 1523, 1524, 1526N[weakly], 1528-1531, 1533-1535, 1537-1540, 1543, 1545-1558, 1560, 1561, 1563-1566, 1568-1576, 1578, 1579N, 1581, 1582, 1587, 1590-1594N, 1596-1599, 9501-9505, 9507, 9508, 9511N, 9513-9520, 9522-9528, 9531-9536, 9538, 9540-9543, 9545-9549N	460101-4610, 4612-4616
45	440 bp	1070 bp	15010101-150104, 150106-150108, 1503-1505, 1507-1512, 1514-1516, 1518, 1519, 1523, 1524, 1526N-1530, 1532-1535, 1537-1540, 1543, 1545-1554, 1556-1558, 1560-1576, 1578-1587, 1590-1599, 9501-9505, 9507-9511N, 9513-9520, 9522-9527, 9529, 9531-9536, 9538, 9540-9543, 9545-9549N	460101-4616
46	395 bp	**800 bp**	15010101-150104, 150106-1504, 1506-1519, 1521, 1523-1530, 1532-1540,	460101-4605, 4607N, 4608, 4610, 4612, 4614-4616

			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, 9525-9529, 9531-9535, 9537-9544, 9546-9549N	
47	360 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, 9539-9549N	460101-4602, 4604, 4605, 4607N- 4616
48	455 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	460101-4605, 4607N-4616
49[5]	135 bp	1070 bp	1557, 9535	
50[5]	85 bp	1070 bp	1567	
51[5,25]	80, 135 bp	1070 bp	1581, 1598, 9509	
52	345 bp	**800 bp**	1592	
53	210 bp	**800 bp**	1596	
54	410 bp	**800 bp**	1597	
55	250 bp	1070 bp	9502	
56[5]	70 bp	1070 bp	9503	
57	380 bp	1070 bp	9511N	
58	170 bp	1070 bp	9513	
59	420 bp	1070 bp	1594N	
60	385 bp	**800 bp**	9520	
61	205 bp	1070 bp	9525	4422
62[5]	105 bp	1070 bp	9526	
63	175 bp	1070 bp	9527	
64	365 bp	**800 bp**	9522	**Cw*0348**
65	550 bp	1070 bp	9529	
66	430 bp	1070 bp	1502, 1513, 1520, 1521,	1301, 1306, 1307N,

			1525, 1536, 1544, 1577, 1585, 1588, 1589, 9512, 9518, 9521, 9539, 9544	1312, 1313, 1317, 1320-1322, 3546, 4408, 4457, 4460, 570101-5710, 5712-5715, 5717
67	305 bp	**800 bp**	9532	
68	215 bp	1070 bp	9534	
69[5]	130 bp	1070 bp	1557	
70	185 bp	1070 bp	9538	3566, 4077, 4087, 4812, 4814
71	405 bp	1070 bp	9539	
72	205 bp	1070 bp	9540	
73[5]	110 bp	1070 bp	9542	0729
74[5]	75 bp	**800 bp**	9545	
75	190 bp	1070 bp	9546	
76	515 bp	1070 bp	1502, 1506, 1513, 15170101-151702, 1521, 1525, 1531, 1536, 1544, 1555, 1577, 1588, 1589, 9506, 9512, 9521, 9528, 9537, 9539, 9544	
77	195 bp	1070 bp	9504	
78	430 bp	1070 bp	9547	
79	420 bp	1070 bp	9548	
80[5]	85 bp	1070 bp	9549N	

[1]Alleles 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 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 inherit feature of the primer pair(s) of a primer mix. More often it is due to other factors such as too low amount of DNA in the PCR reactions, taking too long time in setting up the PCR reactions, working at elevated room temperature or using thermal cyclers that are not pre-heated.
[2]The 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, 60, 64, 67 and 74 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.

[3]For 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.
[4]Due to the sharing of sequence motifs between HLA-B alleles many non-HLA-B*15 alleles will be amplified by the HLA-B15 primer mixes. In addition, the Cw*0746 allele will be amplified by primer mix 7, the Cw*0203 allele will be amplified by primer mix 9, the Cw*0348 allele will be amplified by prier mix 64, the Cw*0746 allele will be amplified by primer mix 7, the Cw*1508 allele will be amplified by primer mix 37 and the Cw*1515 allele will be amplified by primer mix 22.
[5]Short specific PCR fragments are less intense and not as sharp as longer specific bands.
[6]The specific primer pairs in primer mixes 1, 2 and 38 may give rise to less specific PCR product than the other HLA-B15 primer mixes.
[7]Primer mixes 1, 20, 21, 22, 31, 32 and 34 might have a tendency of giving rise to primer dimer artifacts.
[8]Primer mixes 11, 19, 23, 24, 33 and 34 might give rise to non-specific amplifications.
[9]Primer solution 4: Specific PCR fragment of 180 bp in the B*15010102N allele. Specific PCR fragment of 395 bp in the B*151101-151103, 9543, 9548 and 9549N alleles.
[10]Primer solution 10: Specific PCR fragment of 335 bp in the B*1537 and B*1538 alleles. Specific PCR fragment of 555 bp in the B*1506, B*152701-152702, B*1584, B*9509 and B*9512 alleles.
[11]Primer solution 13: Specific PCR fragment of 395 bp in the B*1509, B*1510, B*1518, B*1521, B*1523, B*1537, B*1544, B*1551, B*1552, B*1566, B*1572, B*1580, B*1590, B*1593, B*1599, B*9508, B*9514, B*9519, 9524, 9533 and B*9534 alleles. Specific PCR fragment of 450 bp in the B*1579N allele.
[12]Primer mix 14: Specific PCR fragment of 500 bp in B*1509, B*1510, B*1530, B*1537, B*1545, B*1548, B*1563, B*1583, B*1590 and B*1599 alleles. Specific PCR fragment of 550 bp in the B*9510 allele.
[13]Primer mix 16: Specific PCR fragment of 120 bp in the B*1512 and B*1519 alleles. Specific PCR fragment of 190 bp in the B*9516 and B*9524 and the B*4052, B*4059 and B*4606 alleles.
[14]Primer mix 20: Specific PCR fragment of 395 bp in B*9505 allele. Specific PCR fragment of 540 bp in the B*1516, B*1534, B*1562, B*1567, B*1585, B*1586, B*1595 and B*9537 and the B*4611 alleles.
[15]Primer solution 21: Specific PCR fragment of 210 bp in the B*1516, B*1567 and B*1595 alleles. Specific PCR fragment of 425 bp in the B*1543 allele.
[16]Primer mix 24: Specific PCR fragment of 205 bp in the B*1526N allele. Specific PCR fragment of 300 bp in the B*1533, B*1572, B*1578, B*9507, B*9516 and B*9541 alleles.
[17]Primer solution 25: Specific PCR fragment of 320 bp in the B*1546 and B*1553 and B*9506 alleles. Specific PCR fragment of 390 bp in the B*1528 allele.
[18]Prrimer solution 30: Specific PCR fragment of 360 bp in the B*1540, B*1547, B*1549, B*1552, B*9514, B*9517, B*9524 and B*9538 and the B*4606 alleles. Specific PCR fragment of 395 bp in the B*1575 allele.
[19]Primer mix 31: Specific PCR fragment of 360 bp in the B*1544, B*1550, B*1569, B*1583, B*1586, B*1593, B*9521 and the B*4603 alleles. Specific PCR fragment of 430 bp in the B*9514 allele.
[20]Primer solution 33: Specific PCR fragment of 200 bp in the B*9518 allele. Specific PCR fragment of 255 bp in the B*1542, B*1573 and B*1586 and the B*4611 alleles.
[21]Primer solution 36: Specific PCR fragment of 365 bp in the B*1582 allele. Specific PCR fragment of 435 bp in the B*1536, B*1589 and 9515 alleles.
[22]Primer solution 39: Specific PCR fragment of 305 bp in the B*1560 allele. Specific PCR fragment of 330 bp in the B*9519 allele. Specific PCR fragment of 380 bp in the B*1595 allele.
[23]Primer solution 40: Specific PCR fragment of 220 bp in the B*1571 allele. Specific PCR fragment of 425 bp in the B*1513, B*1516-151702, B*1523, B*1524, B*1567 and B*1595 alleles.
[24]Primer mix 42: Specific PCR fragment of 380 bp in the B*1502, B*1503, B*1505, B*1506, B*1509, B*1510, B*1513, B*1516-1518, B*1521, B*1523, B*1525, B*1529, B*1531, B*1536, B*1537, B*1539, B*1540, B*1544, B*1548, B*1552, B*1555, B*1561, B*1562, B*1564, B*1567, B*1569, B*1572, B*1574, B*1580, B*1588[weakly], B*1589-1591, B*1593, B*1595, B*1598, B*9503, B*9506-9508, B*9512, B*9514, B*9515, B*9519, B*9521, B*9523, B*9524, B*9527, B*9531-9534, B*9536, B*9538 and B*9539 and the B*4606, B*4608 and B*4613 alleles. Specific PCR fragment of 500 bp in the B*1573 and B*1586 and the B*4611 alleles.
[25]Primer mix 51: Specific PCR fragment of 80 bp in the B*1581 allele. Specific PCR fragment of 135 bp in the B*1598 and B*9509 alleles.

INTERPRETATION TABLE

HLA-B*15 high resolution SSP typing

Amplification patterns of the B*15010101 to B*9549N alleles

	Well																																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Lengt of spec.	395	290	120	180	385	565	330	105	200	335	140	405	395	500	105	120	435	200	400	395	210	190	235	205	320	230	115	240	255	360	360	380	200	160	165	365	170	225	305	220
PCR product(s)[1]				395						555			450	550		190				540	425			300	390					395	430		255			435			330	425
																																							380	
Length of int. pos. Control[2]	800	1070	1070	800	1070	1070	1070	1070	1070	800	1070	1070	800	1070	1070	1070	1070	1070	800	1070	1070	800	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	800	1070	1070	800	1070
Well No. / HLA-B allele[3]	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
*15010101, 150103, 150106-150108	+	+	+																			+																		
*15010102N	+	+	+	+																		+																		
*150102	+	+	+												+							+																		
*150104	+		+																			+																		
*1502	+	+			+	+																																		
*1503	+						+															+																		
*1504	+	+	+					+														+																		
*1505	+	+							+													+																		
*1506	+	+								+																														
*1507	+	+	+								+			+								+																		
*1508		+	+		+							+										+																		
*1509					+		+						+	+	+							+																		
*1510					+		+						+	+								+																		
*151101-151102		+	+	+	+																	+																		
*151103		+	+	+	+																	+																		
*1512	+	+	+													+						w																		
*1513	+	+			+	+											+																							+
*1514	+	+	+															+				+																		
*1515	+	+	+		+																	+																		
*1516								+									+		+	+	+	+																		+
*15170101-151702		+															+		+																					+
*1518					+		+						+									+																		
*1519	+	+	+													+						w	+																	
*1520	+	+																				+																		
*1521		+			+	+							+																											
*1523					+		+						+				+					+																		+
*1524	+	+	+														+					+																		+
*1525	+	+				+																																		
*1526N	+	+	+																			+		+																
*152701-152703	+	+	+							+												+																		
*1528	+	+	+																			+			+															
*1529					+		+					+										+																		
*1530	+	+	+											+								+													+					
*1531	+	+			+				+																															
*1532	+	+	+																			+				+														
*1533	+	+																				+		+			+													
*1534	+	+	+																	+		+																		
*1535	+	+	+																			+						+												
*1536	+	+				+																														+				
*1537					+		+			+			+	+								+							+											
*1538	+	+	+							+												+							+											
*1539	+	+																				+																		
*1540	+	+																												+										
Well No. / HLA-B allele[3]	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

INTERPRETATION TABLE

HLA-B*15 high resolution SSP typing

Amplification patterns of the B*15010101 to B*9549N alleles

Well 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	
500	380	565	510	440	395	360	455	135	85	80	345	210	415	250	70	380	170	420	385	205	105	175	365	550	430	305	215	130	185	405	205	110	75	190	515	195	430	420	85	Lengt of spec.
	500									135																														PCR product(s)[1]
1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	800	800	800	1070	1070	1070	1070	1070	800	1070	1070	1070	800	1070	1070	800	1070	1070	1070	1070	1070	1070	800	1070	1070	1070	1070	1070	1070	Length of int. pos. Control[2]
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	Well No. / HLA-B allele[3]
+			+	+	+	+	+																																	*15010101, 150103, 150106-150108
+			+	+	+	+	+																																	*15010102N
+			+	+	+	+	+																																	*150102
+			+	+	+	+	+																																	*150104
+	+				+	+	+																		+										+					*1502
+	+		+	+	+	+	+																																	*1503
+		+		+	+	+	+																																	*1504
+	+		+	+		+	+																																	*1505
+	+				+	+	+																												+					*1506
+			+	+	+	+	+																																	*1507
+			+	+	+	+	+																																	*1508
	+		+	+	+	+	+																																	*1509
	+		+	+	+	+	+																																	*1510
+			+	+	+	+	+																																	*151101-151102
+				+	+	+	+																																	*151103
+			+	+	+	+	+																																	*1512
+	+				+	+	+																		+										+					*1513
+			+	+	+	+	+																																	*1514
+			+	+	+	+	+																																	*1515
+	+	+		+	+	+	+																																	*1516
	+		+		+	+	+																												+					*15170101-151702
+	+		+	+	+	+	+																																	*1518
+			+	+	+	+	+																																	*1519
																									+															*1520
+	+				+	+	+																		+										+					*1521
+	+		+	+	+	+	+																																	*1523
+			+	+	+	+	+																																	*1524
+	+				+	+	+																		+										+					*1525
+			w	+	+	+	+																																	*1526N
+				+	+	+	+																																	*152701-152703
+			+	+	+	+	+																																	*1528
+	+		+	+	+	+	+																																	*1529
			+	+	+	+	+																																	*1530
+	+		+			+	+																												+					*1531
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+			+	+	+	+																																		*1533
+			+	+	+	+	+																																	*1534
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+	+				+	+	+																		+										+					*1536
	+		+	+	+	+	+																																	*1537
+			+	+	+	+	+																																	*1538
+	+		+	+	+	+	+																																	*1539
+	+		+	+	+		+																																	*1540
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	Well No. / HLA-B allele[3]

Well No. / HLA-B allele[3]	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
*1542	+	+																															+							
*1543	+	+	+																		+	+																		
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*1565	+	+																				+															+			
*1566		+	+										+									+																		
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*1569	+						+																							+									
*1570	+	+	+																			+																+		
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*1572					+		+						+									+		+																
*1573	+	+	+																			+											+		+					
*1574							+												+			+																		
*1575	+	+	+																			+								+										
*1576		+	+		+																	+																+		
*1577	+	+	+			+																																		
*1578	+	+																				+		+																
*1579N	+	+	+										+									+																		
*1580					+	+	+						+									+																		
*1581	+	+	+																			+																		
*1582	+	+	+																			+															+				
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*1587	+	+	+														+					+																		
*1588	+	+			+	+																																		
*1589	+	+			+	+																															+				
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*1591	+						+		+									+				+																		
*1592	+	+	+																			+																		
*1593					+		+						+																		+									
*1594N	+	+	+																			+																		
*1595								+									+		+	+	+	+																	+	+
*1596	+	+	+																			+																		
*1597		+	+																			+																		
*1598	+						+															+																		
*1599					+		+						+	+								+															+			
*9501		+	+																			+																+		
Well No. / HLA-B allele[3]	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

44 44 44 44 44 44 44	45 55 55 55 55 55 55	55 55 56 66 66 66 66	66 66 66 66 67 70 71 72	77 77 77 77 77 77 78	Well No.
12 23 34 45 56 67 78	90 01 12 23 34 45 56	78 89 90 01 12 23 34	56 67 78 89 90 01 12	34 45 56 67 78 89 90	HLA-B allele[3]
					*1542
+ + + + + + +					*1543
+ + + + + + +			+	+	*1544
+ + + + + +					*1545
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+ + + + + +					*1574
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+ + + + + +					*1576
+ + + + +			+	+	*1577
+ + + + +					*1578
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+ + + + + +					*1583
+ + + + +					*1584
+ + + + + +			+		*1585
+ + + + +					*1586
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+ w + + + +			+	+	*1588
+ + + + + +			+	+	*1589
+ + + + + +					*1590
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+ + + + + +					*1593
+ + + + + +		+			*1594N
+ + + + + + +					*1595
+ + + + + +	+				*1596
+ + + + + +		+			*1597
+ + + + + +	+				*1598
+ + + + + +					*1599
+ + + + + +					*9501
44 44 44 44 44 44 44	45 55 55 55 55 55 55	55 55 56 66 66 66 66	66 66 66 66 67 70 71 72	77 77 77 77 77 77 78	Well No.
12 23 34 45 56 67 78	90 01 12 23 34 45 56	78 89 90 01 12 23 34	56 67 78 89 90 01 12	34 45 56 67 78 89 90	HLA-B allele[3]

General **"Instructions for Use"** IFU-01 Rev. No. 01 can be downloaded from **www.olerup-ssp.com**

Lot No.: 97E **Lot-specific information**

Well No. / HLA-B allele[3]	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
*9502	+	+	+																			+																		
*9503	+						+															+																		
*9504	+	+	+																			+																		
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*9511N	+	+	+																			+																		
*9512	+	+			+	+				+																														
*9513	+	+	+																			+																		
*9514					+		+		+				+																	+	+									
*9515					+		+						+									+														+				
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*9517	+	+	+																											+										
*9518	+	+	+																			+											+							
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*9520	+	+	+																			+																		
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*9523	+						+		+													+																		
*9524					+		+		+				+			+														+										
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*9526	+	+	+								+			+								+																		
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*9538	+	+																												+										
*9539		+			+	+																																		
*9540	+	+	+																			+																		
*9541	+	+																				+		+				+												
*9542	+	+	+																			+																		
*9543		+	+	+	+		+															+																		
*9544	+	+	+		+	+																																		
*9545	+	+	+																			+																		
*9546	+	+	+																			+																		
*9547	+	+	+																			+																		
*9548		+	+	+	+																	+																		
*9549N		+	+	+																		+																		
*070201-0703, 070501-070502, 0706-0713, 0715, 0716, 071801-071802, 0721-0723, 0727, 0730-0733, 0735-0742, 0744, 0746, 0747, 0749N-0751, 0753, 0754, 0756-0759, 0761-0764, 1318, 1821, 3707, 4015, 4016, 4023,																																					+			
*070503															w																						+			
*0720, 0724, 0760, 350801-350803, 3518, 3561, 3580, 5105, 5129, 5154, 5311, 5316																						+															+			
*0729																																					+	w		
Well No. / HLA-B allele[3]	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

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For *In Vitro* Diagnostic Use.

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	Well No.
123 456 789 012 345 678	901 234 567 890 123 456	789 012 345 678 901 234	567 890 123 456 789 012	HLA-B allele[3]
+ + + + + + +	+			*9502
+ + + + + + +	+			*9503
+ + + + + + +			+	*9504
+ + + + + + +				*9505
+ + + + + + +			+	*9506
+ + + + + + +				*9507
+ + + + + + +				*9508
+ + + + + + +	+			*9509
+ + + + + + +				*9510
+ + + + + + +	+			*9511N
+ + + + + + +		+	+	*9512
+ + + + + + +	+			*9513
+ + + + + + +				*9514
+ + + + + + +				*9515
+ + + + + + +				*9516
+ + + + + + +				*9517
+ + + + + + +		+		*9518
+ + + + + + +				*9519
+ + + + + + +			+	*9520
+ + + + + + +		+	+	*9521
+ + + + + + +			+	*9522
+ + + + + + +				*9523
+ + + + + + +				*9524
+ + + + + + +				*9525
+ + + + + + +				*9526
+ + + + + + +				*9527
+ + + + + + +			+	*9528
+ + + + + + +		+		*9529
+ + + + + + +				*9531
+ + + + + + +				*9532
+ + + + + + +				*9533
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+ + + + + + +	+			*9535
+ + + + + + +				*9536
+ + + + + + +				*9537
+ + + + + + +				*9538
+ + + + + + +				*9539
+ + + + + + +				*9540
+ + + + + + +				*9541
+ + + + + + +				*9542
+ + + + + + +				*9543
+ + + + + + +				*9544
+ + + + + + +				*9545
+ + + + + + +				*9546
+ + + + + + +				*9547
+ + + + + + +				*9548
+ + + + + + +				*9549N
				*070201-0703, 070501-070502, 0706-0713, 0715, 0716, 071801-071802, 0721-0723, 0727, 0730-0733, 0735-0742, 0744, 0746, 0747, 0749N-0751, 0753, 0754, 0756-0759, 0761-0764, 1318, 1821, 3707, 4015, 4016, 4023, 4032, 4805, 4808
				*070503
				*0720, 0724, 0760, 350801-350803, 3518, 3561, 3580, 5105, 5129, 5154, 5311, 5316
				*0729
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	Well No.
123 456 789 012 345 678	901 234 567 890 123 456	789 012 345 678 901 234	567 890 123 456 789 012	HLA-B allele[3]

Well No.									1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	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	9	0
*0745, 0752																																					w			
*0748, 1310, 1311, 1810, 1811, 2707, 2711, 2733, 2734, 2743, 3531, 3930, 400101-400103, 400105, 400201-4003, 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, 4078-4082, 4084, 4085, 4088-4091, 4431, 480101-480102, 480301, 4804, 4806, 4807, 4809-4811, 4813, 4816, 4818, 8101-8104N									+																										
*0765, 5410, 5509																																		+	+					
*080101-080105, 0804, 0805, 0807-0812, 0814-0819N, 0822, 0824, 0827, 0829-0834, 0836, 4506, 5503, 5512, 5516, 5525																																						w		
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*0813, 4043									+																										w					
*0821																						+													w					
*0825									+													+													w					
*0826, 3904, 5401, 5404, 5405N, 5407, 5408N, 5411-5413, 5415, 550101-550202, 5505, 5507, 5511, 5514, 5515, 5517, 5519, 5520, 5522, 5524, 5526-5530, 5612, 5619N, 8301																																						+		
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*1301, 1306, 1307N, 1312, 1313, 1317, 1320-1322, 4408, 4457, 4460, 570103, 5704, 5705																																								
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*1304, 3537, 4904, 511301-511302, 5137, 5214								+														+																		
*1405											+																	+												
*140601, 1815, 4051																													+											
*180101-180103, 1803-1807, 1809, 1812, 1817N, 1820, 1823N-1826, 1828, 1829, 3943									+																				+										
*1813																													+					+						
*1814									+		+																		+											
*1819			+																										+											
*2725, 3586, 4505			+																																					
*2732, 4035									+		+																													
Well No.									1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	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	9	0

44 44 44 44 44 44 44 44	45 55 55 55 55 55 55 55	55 55 55 66 66 66 66 66	66 66 66 66 66 67 77 77	77 77 77 77 77 77 78	Well No.
12 34 56 78	90 12 34 56	78 90 12 34	56 78 90 12	34 56 78 90	HLA-B allele[3]
					*0745, 0752
					*0748, 1310, 1311, 1810, 1811, 2707, 2711, 2733, 2734, 2743, 3531, 3930, 400101-400103, 400105, 400201-4003, 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, 4078-4082, 4084, 4085, 4088 4091, 4431, 480101-480102, 480301, 4804, 4806, 4807, 4809-4811, 4813, 4816, 4818, 8101-8104N
					*0765, 5410, 5509
					*080101-080105, 0804, 0805, 0807-0812, 0814-0819N, 0822, 0824, 0827, 0829-0834, 0836, 4506, 5503, 5512, 5516, 5525
					*0806, 0820
					*0813, 4043
					*0821
					*0825
					*0826, 3904, 5401, 5404, 5405N, 5407, 5408N, 5411-5413, 5415, 550101-550202, 5505, 5507, 5511, 5514, 5515, 5517, 5519, 5520, 5522, 5524, 5526-5530, 5612, 5619N, 8301
					*0828, 0835
			+		*1301, 1306, 1307N, 1312, 1313, 1317, 1320-1322, 4408, 4457, 4460, 570103, 5704, 5705
					*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, 4005, 4028, 4410, 4414, 4445, 4451, 4462, 4802, 510101-5104, 5107-510902, 5111N, 5112, 5114, 5115, 5119, 5120, 5122-512402, 5126-5128, 5130, 5132, 5133, 5135, 5138-5141N, 5143, 5144N, 5146, 5148-5153, 5155-5157, 520101-5207, 5209-5213, 530101-5306, 5308-5310, 5312, 5313, 5315, 5607, 5711, 5716, 580101-5802, 5804, 5806, 5808-5815, 5817N, 5819, 780201-780202, 7804-7806, 8201, 8202
					*1304, 3537, 4904, 511301-511302, 5137, 5214
					*1405
					*140601, 1815, 4051
					*180101-180103, 1803-1807, 1809, 1812, 1817N, 1820, 1823N-1826, 1828, 1829, 3943
					*1813
					*1814
					*1819
					*2725, 3586, 4505
					*2732, 4035
44 44 44 44 44 44 44 44	45 55 55 55 55 55 55 55	55 55 55 66 66 66 66 66	66 66 66 66 66 67 77 77	77 77 77 77 77 77 78	Well No.
12 34 56 78	90 12 34 56	78 90 12 34	56 78 90 12	34 56 78 90	HLA-B allele[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	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HLA-B allele[3]	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
*3505, 3522, 3551, 3572, 4071, 5314, 5818									+		+											+																		
*351401-351402, 3543, 3562, 3567,			+																			+																		
*3529, 3569, 3576, 5403, 5601, 560501-5606, 5608, 5609, 5611, 5613-5617, 5620, 5621, 7801, 7803																						+																		+
*3532, 356802, 4063, 4092, 5816									+													+																		
*3544			+																			+																		
*3545																	+					+																		
*3546, 570101-570102, 570301-570302, 5706-5710, 5714, 5715, 5717																						+																		
*3558											+											+																		
*3566											+																														+
*3571, 4443, 5807																	+					+																		
*3903, 3914, 3924, 3929, 3937, 4454											+																													
*390601-390602, 3934, 4086, 4502, 4905, 5903, 7301								+																																
*3908, 3911																																							w	
*3932, 5145																						+																		
*3933								+														+																		+
*3936			+																																					
*400106									+						+																								
*4012	+						+		+																														
*4026															+							+																		
*4052									+							+																								
*4059																+																								
*4077, 4087									+																														
*4209																																								
*4417																	+					+																		
*4422																																								
*4509								+									+					+																		
*460101, 4604, 4607N, 4610, 4614-		+	+																			+																		w
*460102, 4602, 4605		+	+																			+																		
*4603		+																																					+	w
*4606		+							+							+																								w
*4608		+																				+																		w
*4609		+	+																			+																		w
*4611		+																	+			+																+			w
*4612		+	+								+				+							+																		w
*4613		+							+													+																		w
*4812, 4814									+		+																														
*4819																																								
*5106															+							+																		
*5406, 5603			+																			+																		+
*5409, 5504, 5610, 5618									+																																+
*5414, 5513, 5523, 5532								+																																+
*5508, 5602, 5604									+													+																		+
*5521			+																																					+
*5622								+														+																		w
*5702, 5712																						+																		+
*5713																																								+
HLA-B allele[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	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Cw*0203									+																															
Cw*0348																																								
Cw*0746							+																																
Cw*1508																																							+	
Cw*1515																						+																		
Well No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

44 44 44 44 44 44 44 44	45 55 55 55 55 55 55 55	55 55 56 66 66 66 66 66	66 66 66 66 66 67 77 77	77 77 77 77 77 77 78	Well No.
12 34 56 78	90 12 34 56	78 90 12 34	56 78 90 12	34 56 78 90	HLA-B allele[3]
					*3505, 3522, 3551, 3572, 4071, 5314, 5818
					*351401-351402, 3543, 3562, 3567, 3579
					*3529, 3569, 3576, 5403, 5601, 560501-5606, 5608, 5609, 5611, 5613-5617, 5620, 5621, 7801, 7803
					*3532, 356802, 4063, 4092, 5816
					*3544
					*3545
			+		*3546, 570101-570102, 570301-570302, 5706-5710, 5714, 5715, 5717
					*3558
					*3566
					*3571, 4443, 5807
					*3903, 3914, 3924, 3929, 3937, 4454
					*390601-390602, 3934, 4086, 4502, 4905, 5903, 7301
					*3908, 3911
					*3932, 5145
					*3933
					*3936
					*400106
					*4012
					*4026
					*4052
					*4059
					*4077, 4087
					*4209
					*4417
					*4422
					*4509
+ + + + + +					*460101, 4604, 4607N, 4610, 4614-4616
+ + + + + +					*460102, 4602, 4605
+ + + + +					*4603
+ + + +					*4606
+ + + + + + +					*4608
+ + + + + +					*4609
+ + + + + + +					*4611
+ + + + + + +					*4612
+ + + + + + +					*4613
					*4812, 4814
					*4819
					*5106
					*5406, 5603
					*5409, 5504, 5610, 5618
					*5414, 5513, 5523, 5532
					*5508, 5602, 5604
					*5521
					*5622
					*5702, 5712
					*5713
44 44 44 44 44 44 44 44	45 55 55 55 55 55 55 55	55 55 56 66 66 66 66 66	66 66 66 66 66 67 77 77	77 77 77 77 77 77 78	HLA-B allele[3]
12 34 56 78	90 12 34 56	78 90 12 34	56 78 90 12	34 56 78 90	Well No.
					Cw*0203
				+	Cw*0348
					Cw*0746
					Cw*1508
					Cw*1515
44 44 44 44 44 44 44 44	45 55 55 55 55 55 55 55	55 55 56 66 66 66 66 66	66 66 66 66 66 67 77 77	77 77 77 77 77 77 78	
12 34 56 78	90 12 34 56	78 90 12 34	56 78 90 12	34 56 78 90	Well No.

[1]Primer solution 4: Specific PCR fragment of 180 bp in the B*15010102N allele. Specific PCR fragment of 395 bp in the B*151101-151103, 9543, 9548 and 9549N alleles.
Primer solution 10: Specific PCR fragment of 335 bp in the B*1537 and B*1538 alleles. Specific PCR fragment of 555 bp in the B*1506, B*152701-152702, B*1584, B*9509 and B*9512 alleles.
Primer solution 13: Specific PCR fragment of 395 bp in the B*1509, B*1510, B*1518, B*1521, B*1523, B*1537, B*1544, B*1551, B*1552, B*1566, B*1572, B*1580, B*1590, B*1593, B*1599, B*9508, B*9514, B*9519, 9524, 9533 and B*9534 alleles. Specific PCR fragment of 450 bp in the B*1579N allele.
Primer mix 14: Specific PCR fragment of 500 bp in B*1509, B*1510, B*1530, B*1537, B*1545, B*1548, B*1563, B*1583, B*1590 and B*1599 alleles. Specific PCR fragment of 550 bp in the B*9510 allele.
Primer mix 16: Specific PCR fragment of 120 bp in the B*1512 and B*1519 alleles. Specific PCR fragment of 190 bp in the B*9516 and B*9524 and the B*4052, B*4059 and B*4606 alleles.
[14]Primer mix 20: Specific PCR fragment of 395 bp in B*9505 allele. Specific PCR fragment of 540 bp in the B*1516, B*1534, B*1562, B*1567, B*1585, B*1586, B*1595 and B*9537 and the B*4611 alleles.
Primer solution 21: Specific PCR fragment of 210 bp in the B*1516, B*1567 and B*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, B*1572, B*1578, B*9507, B*9516 and B*9541 alleles.
Primer solution 25: Specific PCR fragment of 320 bp in the B*1546 and B*1553 and B*9506 alleles. Specific PCR fragment of 390 bp in the B*1528 allele.
Prrimer solution 30: Specific PCR fragment of 360 bp in the B*1540, B*1547, B*1549, B*1552, B*9514, B*9517, B*9524 and B*9538 and the B*4606 alleles. Specific PCR fragment of 395 bp in the B*1575 allele.
Primer mix 31: Specific PCR fragment of 360 bp in the B*1544, B*1550, B*1569, B*1583, B*1586, B*1593, B*9521 and the B*4603 alleles. Specific PCR fragment of 430 bp in the B*9514 allele.
Primer solution 33: Specific PCR fragment of 200 bp in the B*9518 allele. Specific PCR fragment of 255 bp in the B*1542, B*1573 and B*1586 and the B*4611 alleles.
Primer solution 36: Specific PCR fragment of 365 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 330 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 allele. Specific PCR fragment of 425 bp in the B*1513, B*1516-151702, B*1523, B*1524, B*1567 and B*1595 alleles.
Primer mix 42: Specific PCR fragment of 380 bp in the B*1502, B*1503, B*1505, B*1506, B*1509, B*1510, B*1513, B*1516-1518, B*1521, B*1523, B*1525, B*1529, B*1531, B*1536, B*1537, B*1539, B*1540, B*1544, B*1548, B*1552, B*1555, B*1561, B*1562, B*1564, B*1567, B*1569, B*1572, B*1574, B*1580, B*1588[weakly], B*1589-1591, B*1593, B*1595, B*1598, B*9503, B*9506-9508, B*9512, B*9514, B*9515, B*9519, B*9521, B*9523, B*9524, B*9527, B*9531-9534, B*9536, B*9538 and B*9539 and the B*4606, B*4608 and B*4613 alleles. Specific PCR fragment of 500 bp in the B*1573 and B*1586 and the B*4611 alleles.
Primer mix 51: Specific PCR fragment of 80 bp in the B*1581 allele. Specific PCR fragment of 135 bp in the B*1598 and B*9509 alleles.
[2]The 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, 60, 64, 67 and 74 contain the primer pair giving rise to the shorter, 800 bp, internal positive control band in order to allow kit identification.
[3]The sequence of B*150105 has been renamed to B*9520.
The sequence of B*1522 has been named in error, 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	45	463	45	45	355	45	357	369	360	363	45
	5'-ggA3'	5'-ggA3'	5'-TgA3'	5'-ggA3'	5'-ggA3'	5'-TCA3'	5'-ggA3'	5'-Tgg3'	5'-TAC3'	5'-CAC3'	5'-AgC3'	5'-ggA3'
										368		
										5'-gTT3'		
										583		
										5'-gAC3'		
3'-primer(s)[2]	272	165	538	1st i	259	3rd i	206	419	527	3rd i	463	272
	5'-Tgg3'	5'-Tgg3'	5'-CCA3'	5'-gAC3'	5'-gTT3'	5'-ATC3'	5'-CCT3'	5'-Cgg3'	5'-CCA3'	5'-ATC3'	5'-gCT3'	5'-TgA3'
			545	272				419				287
			5'-AgA3'	5'-TgT3'				5'-CgA3'				5'-TCC3'
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	368	369	419	45	419	45	379	45	409	821	2nd i
	5'-ggA3'	5'-gTg3'	5'-TAC3'	5'-gTC3'	5'-ggA3'	5'-gTC3'	5'-ggA3'	5'-ACC3'	5'-ggA3'	5'-ggC3'	5'-gCT3'	5'-CAA3'
		419						523				
		5'-gTA3'						5'-CCT3'				
3'-primer(s)[2]	272	3rd i	435	499	309	572	266	3rd i	83	559	916	369
	5'-TgC3'	5'-ATC3'	5'-TCT3'	5'-ggA3'	5'-ATC3'	5'-gCg3'	5'-TCC3'	5'-ATC3'	5'-TgA3'	5'-CAg3'	5'-gAT3'	5'-CCT3'
	327			570			278		301			463
	5'-TTg3'			5'-CCg3'			5'-TgA3'		5'-gTC3'			5'-gCg3'
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	368	485	362	369	526	488	2nd i	45	419	412	45
	5'-ggA3'	5'-gTC3'	5'-CAA3'	5'-gAC3'	5'-TAC3'	5'-gTC3'	5'-ggg3'	5'-CAA3'	5'-ggA3'	5'-gTC3'	5'-ATA3'	5'-ggA3'
						560	560		2nd i			
						5'-CgA3'	5'-CAC3'		5'-CAA3'			
3'-primer(s)[2]	193	558	559	559	583	3rd i	3rd i	544	362	538	538	238
	5'-CgT3'	5'-Agg3'	5'-CAg3'	5'-CAg3'	5'-gTg3'	5'-ATC3'	5'-ATC3'	5'-gTT3'	5'-TCA3'	5'-gTC3'	5'-CCA3'	5'-CCT3'
	263								420			309
	5'-gTA3'								5'-gCT3'			5'-gTg3'
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	106	45	45	419	420	357	369	409	527	560	463
	5'-ggC3'	5'-CCA3'	5'-ggA3'	5'-ggA3'	5'-gTC3'	5'-TTA3'	5'-Tgg3'	5'-TAC3'	5'-ggC3'	5'-TgA3'	5'-CCT3'	5'-TgA3'
						539						
						5'-gCT3'						
3'-primer(s)[2]	538	292	181	97	3rd i	3rd i	3rd i	3rd i	3rd i	3rd i	3rd i	3rd i
	5'-CCg3'	5'-gTC3'	5'-gTT3'	5'-gTg3'	5'-ATC3'	5'-ATC3'	5'-ATC3'	5'-ATC3'	5'-ATC3'	5'-ATC3'	5'-ATC3'	5'-ATC3'
			203	302								
			5'-CTg3'	5'-ggT3'								
			257									
			5'-CCT3'									
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	3rd i	25	539	145	45	45
	5'-ggC3'	5'-TgA3'	5'-CCA3'	5'-ggA3'	5'-gTC3'	5'-ggA3'	5'-Agg3'	5' -CC g 3'	5'-gTg3'	5'-CAA3'	5'-ggA3'	5'-ggA3'
			419			2nd i						
			5'-gTC3'			5'-CAA3'						
3'-primer(s)[2]	302	506	146	221	589	288	779	56	3rd i	272	295	261
	5'-ggT3'	5'-TgT3'	5'-CCg3'	5'-ATA3'	5'-CTT3'	5'-gTg3'	5' -CT A 3'	5' -TC g 3'	5'-ATC3'	5'-Tgg3'	5'-TCA3'	5'-gTA3'
			200			362						
			5'-TCA3'			5'-TCA3'						
			538			538						
			5'-gTC3'			5'-CCA3'						
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'-CCg3'	5'-AgC3'	5'-gTC3'	5'-ggA3'	5'-AAT3'	5'-ggC3'	5'-ggA3'	5'-gTC3'	5'-ggC3'	5'-TgA3'	5'-ggA3'	5'-ACg3'
3'-primer(s)[2]	272	425	554	242	3rd i	353	177	593	299	605	277	916
	5'-Tgg3'	5'-CgC3'	5'-CCg3'	5'-CCA3'	5'-ATC3'	5'-TgA3'	5'-AAA3'	5'-CgC3'	5'-TCA3'	5'-gCT3'	5'-ggC3'	5'-gAT3'
						362						
						5'-TCA3'						
Well No.	61	62	63	64	65	66	67	68	69	70	71	72

Well No.	73	74	75	76	77	78	79	80
5'-primer(s)[1]	97	523	769	409	3rd i	495	45	267
	5'-TCg3'	5'-CCg3'	5'-Agg3'	5'-ggT3'	5'-Agg3'	5'-CAC3'	5'-ggA3'	5'-.Ag3'
3'-primer(s)[2]	165	559	916	3rd i	723	3rd i	296	311
	5'-Tgg3'	5'-CAg3'	5'-gAT3'	5'-ATC3'	5'-Tgg3'	5'-ATC3'	5'-CTT3'	5'-ggT3'
Well No.	73	74	75	76	77	78	79	80

[1]The nucleotide position, in the 1st, 2nd, 3rd or 4th exons or 2nd or 3rd intron, matching the specificity-determining 3'-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.
[2]The 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.

CELL LINE VALIDATION SHEET

HLA-B*15 SSP subtyping kit

					Well															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Prod. No.:	200849901	200849902	200849903	200849904	200849905	200849906	200849907	200849908	200849909	200849910	200849911	200849912	200849913	200849914	200849915	200849916
	IHWC 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	200849921	200849922	200849923	200849924	200849925	200849926	200849927	200849928	200849929	200849930	200849931	200849932
	IHWC 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	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-

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	200849936	200849937	200849938	200849939	200849940	200849941	200849942	200849943	200849944	200849945	200849946	200849947	200849948
	IHWC 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	-	-	-	-	-	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	200849951	200849952	200849953	200849954	200849955	200849956	200849957	200849958	200849959	200849960	200849961	200849962	200849963	200849964
	IHWC 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	200849966	200849967	200849968	200849969	200849970	200849971	200849972	200849973	200849974	200849975	200849976	200849977	200849978	200849979	200849980
	IHWC 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CERTIFICATE OF ANALYSIS

Olerup SSP® HLA-B*15 SSP

Product number: **101.516-24u/04u – without *Taq* pol.**
Lot number: **97E**
Expiry date: **2010-September-01**
Number of tests: **24 tests – Product No. 101.516-24u**
4 tests – Product No. 101.516-04u
Number of wells per test: **80**

Well specifications:

Well No.	Production No.	Well No.	Production No.	Well No.	Production No.
1	2008-499-01	33	2008-499-33	65	2008-499-65
2	2008-499-02	34	2008-499-34	66	2008-499-66
3	2008-499-03	35	2008-499-35	67	2008-499-67
4	2008-499-04	36	2008-499-36	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	2008-499-07	39	2008-499-39	71	2008-499-71
8	2008-499-08	40	2008-499-40	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	2008-499-44	78	2008-499-76
13	2008-499-13	45	2008-499-45	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	2008-499-79
16	2008-499-16	48	2008-499-48	80	2008-499-80
17	2008-499-17	49	2008-499-49		
18	2008-499-18	50	2008-499-50		
19	2008-499-19	51	2008-499-51		
20	2008-499-20	52	2008-499-52		
21	2008-499-21	53	2008-499-53		
22	2008-499-22	54	2008-499-54		
23	2008-499-23	55	2008-499-55		
24	2008-499-24	56	2008-499-56		
25	2008-499-25	57	2008-499-57		
26	2008-499-26	58	2008-499-58		
27	2008-499-27	59	2008-499-59		
28	2008-499-28	60	2008-499-60		
29	2008-499-29	61	2008-499-61		
30	2008-499-30	62	2008-499-62		
31	2008-499-31	63	2008-499-63		
32	2008-499-32	64	2008-499-64		

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 4, 10, 18, 24 to 27, 30 to 34, 36, 39, 49 to 65, 67 to 75 and 77 to 80 were available. The specificities of the primers in primer solutions 10, 18, 24, 25, 26, 27, 30, 31, 33, 34, 36, 42, 49, 53, 61, 65, 70 and 73 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 and 79 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 and 80 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, 34, 36 and 40 were not possible to test. Additional 5'-primers in primer solutions 10, 14, 20, 30 and 31 were not possible to test.

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

Date of approval: 2010-August-30

Approved by:

Quality Control, Supervisor

Declaration of Conformity

Product name: *Olerup* SSP® HLA-B*15
Product number: 101.516-24u/04u
Lot number: 97E

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 9001:2000 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-August-30

Olle Olerup

ADDRESSES:

Manufacturer:
***Olerup* SSP AB**, Hasselstigen 1, SE-133 33 Saltsjöbaden, Sweden.
Tel: +46-8-717 88 27
Fax: +46-8-717 88 18
E-mail: info-ssp@olerup.com
Web page: http://www.olerup.com

Distributed by:
Olerup GmbH, Löwengasse 47 / 6, AT-1030 Vienna, Austria.
Tel: +43-1-710 15 00
Fax: +43-1-710 15 00 10
E-mail: support-at@olerup.com
Web page: http://www.olerup.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.com

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