OLERUP SSP®
GENOMIC HLA TYPING

Calculation Tables Olerup SSP® Kits including *Taq* Polymerase

Calculation Tables:
Olerup SSP® Kits including *Taq* Polymerase

Table 1: Volumes of the components needed per test for different numbers of wells when using Master Mix including Taq Polymerase. The recommended volumes listed below include volume to compensate for pipette variations and for losses of liquid on the interior walls of the tubes.

March 2015

No. of wells per test	Volume of Master Mix (µl)	Volume of DNA sample (µl)	Volume of dH_2O (µl)
2	12	8	20
3	15	10	25
4	18	12	30
5	21	14	35
6	24	16	40
7	27	18	45
8	30	20	50
9	33	22	55
10	36	24	60
11	39	26	65
12	42	28	70
13	45	30	75
14	48	32	80
15	51	34	85
16	54	36	90
17	60	40	100
18	63	42	105
19	66	44	110
20	69	46	115
21	72	48	120
22	75	50	125
23	78	52	130
24	81	54	135
25	87	58	145
26	90	60	150
27	93	62	155
28	96	64	160
29	99	66	165
30	102	68	170
31	105	70	175
32	108	72	180
36	126	84	210
40	138	92	230
44	150	100	250
48	162	108	270
52	174	116	290
56	186	124	310
60	198	132	330
64	210	140	350
68	228	152	380
72	240	160	400
76	252	168	420
80	264	176	440
84	276	184	460
88	288	192	480
92	300	200	500
96	312	208	520

Calculation Tables:
Olerup SSP® Kits including *Taq* Polymerase

Table 2: Volumes of the components needed per test for different Olerup SSP® products when using Master Mix (MM) including Taq Polymerase. The recommended volumes listed below include volume to compensate for pipette variations and for losses of liquid on the interior walls of the tubes.

Low Resolution Kits and Combi Trays

March 2015

Product group	Product Name	Lot No.	No.of wells	PCR MM 3µl	DNA 2µl	dH_2O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH_2O
HLA - DR	DR low	09Y	32	108	72	180	360
HLA - DQ	DQ low	06Y	14	48	32	80	160
HLA - A	HLA-A low	44V/42X	32	108	72	180	360
HLA - B	HLA-B low	84X	64	210	140	350	700
HLA - C	HLA-C low	79V	32	108	72	180	360
HLA - DR	DR low Screening	42V	24	81	54	135	270
HLA - A	HLA-A low Screening	28V	24	81	54	135	270
HLA - B	HLA-B low Screening	89S	48	162	108	270	540
HLA - C	HLA-C low Screening	34V	24	81	54	135	270
Combi	A-B-DR	73X	96	312	208	520	1040
	A-B-C	33X	96	312	208	520	1040
	A-B-DR-DQ	43V	96	312	208	520	1040
	DQ-DR	78V	32	108	72	180	360
	DQA-DQB-DR Enhanced	17X	96	312	208	520	1040

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Calculation Tables:
Olerup SSP® Kits including *Taq* Polymerase

High Resolution Kits March 2015

Product group	Product Name	Lot No.	No.of wells	PCR MM 3µl	DNA 2µl	dH_2O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH_2O
HLA-DR	DRB1*01	85V	24	81	54	135	270
	DRB1*15	83V	32	108	72	180	360
	DRB1*16	60X	16	54	36	90	180
	DRB1*03	52V	32	108	72	180	360
	DRB1*04	18V	48	162	108	270	540
	DRB1*11	38X	47	162	108	270	540
	DRB1*13	59S	48	162	108	270	540
	DRB1*14	06X	48	162	108	270	540
	DRB1*07	02V	16	54	36	90	180
	DRB1*08	13X	24	81	54	135	270
	DRB1*12	41X	24	81	54	135	270
	DRB1*09	22X	12	42	28	70	140
	DRB1*10	58V	8	21	14	35	70
	DRB3	34X	32	108	72	180	360
	DRB4	48X	14	48	32	80	160
	DRB5	49X	16	54	36	90	180
	DRA	52F	2	12	8	20	40
HLA-DQ	DQB1*05	59X	24	51	34	85	170
	DQB1*06	93X	62	210	140	350	700
	DQB1*02	55X	24	81	54	135	270
	DQB1*03	94X	48	162	108	270	540
	DQB1*04	47V	15	30	20	50	100
	DQB1 direct to high resolution for frequent alleles	74X	96	312	208	520	1040
	DQA1	52X	32	108	72	180	360
HLA-DP	DPB1	44X	63	210	140	350	700
	DPA1	40X	16	54	36	90	180

High Resolution Kits March 2015

Product group	Product Name	Lot No.	No.of wells	PCR MM 3µl	DNA 2µl	dH_2O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH_2O
HLA-A	HLA-A*01	35X	48	162	108	270	540
	HLA-A*02	10X	96	312	208	520	1040
	HLA-A*03	53V	64	210	150	350	700
	HLA-A*23	59V	32	108	72	180	360
	HLA-A*24	83X	96	312	208	520	1040
	HLA-A*25	50X	16	54	36	90	180
	HLA-A*26	01X	48	162	108	270	540
	HLA-A*34	69V	11	39	26	65	130
	HLA-A*66	21V	16	54	36	90	180
	HLA-A*11	82V	64	210	140	350	700
	HLA-A*29	66X	24	81	54	135	270
	HLA-A*30	38V	32	108	72	180	360
	HLA-A*31	14X	32	108	72	180	360
	HLA-A*32	96X	28	96	64	160	320
	HLA-A*33	39X	31	105	70	175	350
	HLA-A*74	77S	16	54	36	90	180
	HLA-A*80	09X	5	21	14	35	70
	HLA-A*36	18S	7	27	18	45	90
	HLA-A*68	30x	48	162	108	270	540
	HLA-A*69	10Y	6	24	16	40	80
HLA-B	HLA-B*51	62X	77	258	172	430	860
	HLA-B*52	87V	16	54	36	90	180
	HLA-B*07	84V	84	276	184	460	920
	HLA-B*08	29X	48	162	108	270	540
	HLA-B*44	14V	60	198	132	330	660
	HLA-B*45	26X	16	54	36	90	180
	HLA-B*13	56V	29	81	54	135	270
	HLA-B*14	61X	19	66	44	110	220
	HLA-B*15	66V	96	312	208	520	1040
	HLA-B*38	57X	24	81	54	135	270
	HLA-B*39	82X	32	108	72	180	360
	HLA-B*57	28X	28	96	64	160	320
	HLA-B*58	80R	24	81	54	135	270
	HLA-B*18	56X	32	108	72	180	360
	HLA-B*54	05V	21	72	48	120	240
	HLA-B*55	19V	32	108	72	180	360
	HLA-B*56	39V	24	81	54	135	270
	HLA-B*27	21X	45	156	104	260	520
	HLA-B*35	02X	88	288	192	480	960
	HLA-B*40	53X	92	300	200	500	1000
	HLA-B*37	91V	24	81	54	135	270

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High Resolution Kits

March 2015

Product group	Product Name	Lot No.	No.of wells	PCR MM 3µl	DNA 2µl	dH_2O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH_2O
HLA-B	HLA-B*41	23X	20	69	46	115	230
	HLA-B*42	26V	16	54	36	90	180
	HLA-B*46	97S	24	81	54	135	270
	HLA-B*47	43X	10	36	24	60	120
	HLA-B*48	96S	16	54	36	90	180
	HLA-B*49	88V	19	66	44	110	220
	HLA-B*50	79X	21	72	48	120	240
	HLA-B*53	86V	24	81	54	135	270
	HLA-B*59	96V	10	36	24	60	120
	HLA-B*67	50V	8	30	20	50	100
	HLA-B*73	92V	4	18	12	30	60
	HLA-B*78	80X	16	54	36	90	180
	HLA-B*81	08V	8	30	20	50	100
	HLA-B*82	51V	6	24	16	40	80
HLA-C	HLA-C*03	64V	48	162	108	270	540
	HLA-C*04	67X	53	174	116	290	580
	HLA-C*05	24V	32	108	72	180	360
	HLA-C*06	75V	48	162	108	270	540
	HLA-C*07	04X	87	288	192	480	960
	HLA-C*01	40V	24	81	54	135	270
	HLA-C*02	81X	32	108	72	180	360
	HLA-C*08	72V	32	108	72	180	360
	HLA-C*12	77X	38	132	88	220	440
	HLA-C*14	19X	29	81	54	135	270
	HLA-C*15	23V	31	105	70	175	350
	HLA-C*16	90V	24	81	54	135	270
	HLA-C*17	22V	16	54	36	90	180
	HLA-C*18	76X	8	30	20	50	100
	HLA-C direct to high resolution for frequent alleles	95V	96	312	208	520	1040

Screening Kits for Disease Associated HLA Alleles

March 2015

Product group	Product Name	Lot No.	No.of wells	PCR MM 3µl	DNA 2µl	dH_2O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH_2O
HLA-DQ	DQB1*06:02, DQA1*01:02	47X	8	30	20	50	100
	DQA1*02,05; DQB1*02,03:02	07Y	18	63	42	105	210
HLA-B	B*27 unit dose	16X	2	12	8	20	40
	HLA-B*57:01	27X	20	69	46	115	230

Null allele kits

Product group	Product Name	Lot No.	No.of wells	PCR MM 3µl	DNA 2µl	dH_2O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH_2O
HLA-DR	DRB4*01:03:01:02N	23Y	3	15	10	25	50
	DRB5*01:08N	97V	3	15	10	25	50
HLA-A	HLA-A*24:09N	48V	3	15	10	25	50
HLA-B	HLA-B*51:11N	35V	3	15	10	25	50
HLA-C	HLA-C*04:09N	51X	3	15	10	25	50

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Add-ons

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Product group	Product Name	Lot No.	No.of wells	PCR MM 3µl	DNA 2µl	dH_2O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH_2O
HLA-DR	DRB1*14:01/14:54	11X	3	15	10	25	50
	DRB1*04 add-on	68X	4	18	12	30	60
	DRB1*12 add-on	89X	3	15	10	25	50
HLA-A	HLA-A*11 add-on	90X	3	15	10	25	50
	HLA-A*23 add-on	70X	4	18	12	30	60
HLA-B	HLA-B*07 add-on	98X	7	27	18	45	90
	HLA-B*39 add-on	75X	3	15	10	25	50
HLA-C	HLA-C*04 add-on	92X	5	21	14	35	70
	HLA-C*07 add-on	71X	8	30	20	50	100
	HLA-C*08 add-on	85X	5	21	14	35	70
	HLA-C*15 add-on	91X	4	18	12	30	60

KIR

Product group	Product Name	Lot No.	No.of wells	PCR MM 3µl	DNA 2µl	dH_2O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH_2O
KIR	KIR Genotyping	97X	24	81	54	135	270
	KIR HLA Ligand	66S	6	24	16	40	80

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