

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.

April 2018

No. of wells per test	Volume of Master mix (µl)	Volume of DNA sample (µl)	Volume of dH ₂ O (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.

April 2018

LOW RESOLUTION KITS AND COMBI TRAYS

Product Group	Product name	Lot No.	No. of Wells	PCR MM 3µl	DNA 2µl	dH ₂ O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH ₂ O
HLA - A	HLA-A low	3E4	32	108	72	180	360
HLA - A	HLA-A low Screening	82Y	24	81	54	135	270
HLA - B	HLA-B low	3F8	64	210	140	350	700
HLA - B	HLA-B low Screening	8E4	48	162	108	270	540
HLA - C	HLA-C low	3F9	32	108	72	180	360
HLA - C	HLA-C low Screening	2G0	24	81	54	135	270
HLA - DR	DR low	1E5	32	108	72	180	360
HLA - DR	DR low Screening	4E9	24	81	54	135	270
HLA - DQ	DQ low	9F7	16	54	36	90	180
Combi	A-B-DR	9F4	96	312	208	520	1040
	A-B-C	8F0	96	312	208	520	1040
	A-B-DR-DQ	6F9	96	312	208	520	1040
	DQ-DR	6F5	47	162	108	270	540
	DQA-DQB-DR Enhanced	5F0	96	312	208	520	1040

Calculation Tables:

Olerup SSP Kits including *Taq* Polymerase

HIGH RESOLUTION KITS

April 2018

Product Group	Product name	Lot No.	No. of Wells	PCR MM 3µl	DNA 2µl	dH ₂ O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH ₂ O
HLA-A	HLA-A*01	1E6	56	186	124	310	620
	HLA-A*02	8F9	96	312	208	520	1040
	HLA-A*03	6F4	64	210	150	350	700
	HLA-A*23	0G9	36	126	84	210	420
	HLA-A*24	3F1	96	312	208	520	1040
	HLA-A*25	8D7	16	54	36	90	180
	HLA-A*26	1F3	48	162	108	270	540
	HLA-A*34	87Y	12	42	28	70	140
	HLA-A*66	9E5	16	54	36	90	180
	HLA-A*11	4E7	64	210	140	350	700
	HLA-A*29	9F9	28	96	64	160	320
	HLA-A*30	45Y	32	108	72	180	360
	HLA-A*31	4F2	40	138	92	230	460
	HLA-A*32	5E4	30	102	68	170	340
	HLA-A*33	7F1	32	108	72	180	360
	HLA-A*74	1G7	16	54	36	90	180
	HLA-A*80	5F3	5	21	14	35	70
	HLA-A*36	8F7	8	30	20	50	100
	HLA-A*68	4E1	48	162	108	270	540
HLA-A*69	0G8	6	24	16	40	80	
HLA-B	HLA-B*51	7E5	83	276	184	460	920
	HLA-B*52	0G1	21	72	48	120	240
	HLA-B*07	4F6	89	300	200	500	1000
	HLA-B*08	3E6	48	162	108	270	540
	HLA-B*44	8F4	64	210	140	350	700
	HLA-B*45	0G4	16	54	36	90	180
	HLA-B*13	9E7	31	105	70	175	350
	HLA-B*14	9F8	22	75	50	125	250
	HLA-B*15	3F7	96	312	208	520	1040
	HLA-B*38	6F7	30	102	68	170	340
	HLA-B*39	9F5	44	150	100	250	500
	HLA-B*57	7E2	32	108	72	180	360
	HLA-B*58	7E4	31	105	70	175	350
	HLA-B*18	8F2	38	132	88	220	440
	HLA-B*54	7E8	22	75	50	125	250
	HLA-B*55	9E2	32	108	72	180	360
	HLA-B*56	0F3	24	81	54	135	270

HIGH RESOLUTION KITS

April 2018

Product Group	Product name	Lot No.	No. of Wells	PCR MM 3µl	DNA 2µl	dH ₂ O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH ₂ O
HLA-B	HLA-B*27	5F4	47	162	108	270	540
	HLA-B*35	2E1	93	300	200	500	1000
	HLA-B*40	5F8	95	312	208	520	1040
	HLA-B*37	7F5	30	102	68	170	340
	HLA-B*41	2F6	24	81	54	135	270
	HLA-B*42	3E7	16	54	36	90	180
	HLA-B*46	8E3	24	81	54	135	270
	HLA-B*47	4F9	11	39	26	65	130
	HLA-B*48	8E2	20	69	46	115	230
	HLA-B*49	4E8	21	72	48	120	240
	HLA-B*50	7F3	24	81	54	135	270
	HLA-B*53	5E5	24	81	54	135	270
	HLA-B*59	4F0	10	36	24	60	120
	HLA-B*67	7F8	8	30	20	50	100
	HLA-B*73	80Y	4	18	12	30	60
	HLA-B*78	1G6	16	54	36	90	180
	HLA-B*81	8E6	10	36	24	60	120
	HLA-B*82	2E6	6	24	16	40	80
HLA-C	HLA-C*03	6E9	58	198	132	330	660
	HLA-C*04	0F2	64	210	140	350	700
	HLA-C*05	0E3	36	126	84	210	420
	HLA-C*06	2E9	57	186	124	310	620
	HLA-C*07	7E6	94	312	208	520	1040
	HLA-C*01	2E2	32	108	72	180	360
	HLA-C*02	2E7	42	150	100	250	500
	HLA-C*08	61Y	32	108	72	180	360
	HLA-C*12	1F8	48	162	108	270	540
	HLA-C*14	3F4	31	105	70	175	350
	HLA-C*15	1D5	38	132	88	220	440
	HLA-C*16	7E1	24	81	54	135	270
	HLA-C*17	1E9	16	54	36	90	180
HLA-C*18	8F3	8	30	20	50	100	
HLA-C direct to high resolution for frequent alleles	0F2	96	312	208	520	1040	

HIGH RESOLUTION KITS

April 2018

Product Group	Product name	Lot No.	No. of Wells	PCR MM 3µl	DNA 2µl	dH ₂ O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH ₂ O
HLA-DR	DRB1*01	9E8	24	81	54	135	270
	DRB1*15	2F2	32	108	72	180	360
	DRB1*16	7F0	16	54	36	90	180
	DRB1*03	8E7	32	108	72	180	360
	DRB1*04	3F5	48	162	108	270	540
	DRB1*11	7F2	48	162	108	270	540
	DRB1*13	1F6	58	198	132	330	660
	DRB1*14	3F6	48	162	108	270	540
	DRB1*07	3E8	22	75	50	125	250
	DRB1*08	2F0	24	81	54	135	270
	DRB1*12	6F1	24	81	54	135	270
	DRB1*09	5F9	15	51	34	85	170
	DRB1*10	6F8	8	21	14	35	70
	DRB3	7F6	46	156	104	260	520
	DRB4	3D3	14	48	32	80	160
DRB5	5F2	19	66	44	110	220	
DRA	52F	2	12	8	20	40	
HLA-DQ	DQB1*05	1F7	32	108	72	180	360
	DQB1*06	5E8	64	210	140	350	700
	DQB1*02	98Y	24	81	54	135	270
	DQB1*03	6F6	64	210	140	350	700
	DQB1*04	5E2	19	66	44	110	220
	DQB1 direct to high resolution for frequent alleles	2F4	96	312	208	520	1040
	DQA1	3F0	32	108	72	180	360
HLA-DP	DPB1	7F7	96	312	208	520	1040
	DPA1	2E0	16	54	36	90	180

SCREENING KITS FOR DISEASE ASSOCIATED HLA ALLELES

April 2018

Product Group	Product name	Lot No.	No. of Wells	PCR MM 3µl	DNA 2µl	dH ₂ O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH ₂ O
HLA-B	B*27 unit dose	5F1	2	12	8	20	40
	HLA-B*57:01	5E0	23	78	52	130	260
	HLA-B*51,52	7F9	3	15	10	25	50
HLA-DQ	DQB1*06:02, DQA1*01:02	1E7	8	30	20	50	100
	DQA1*02,05; DQB1*02,03:02	6F0	22	75	50	125	250

NULL ALLELE KITS

Product Group	Product name	Lot No.	No. of Wells	PCR MM 3µl	DNA 2µl	dH ₂ O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH ₂ O
HLA-A	HLA-A*24:09N	2E4	3	15	10	25	50
HLA-B	HLA-B*51:11N	4F3	3	15	10	25	50
HLA-C	HLA-C*04:09N	5F7	3	15	10	25	50
HLA-DR	DRB4*01:03:01:02N	6F3	3	15	10	25	50
	DRB5*01:08N	5F6	3	15	10	25	50

ADD-ONS

April 2018

Product Group	Product name	Lot No.	No. of Wells	PCR MM 3µl	DNA 2µl	dH ₂ O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH ₂ O
HLA-A	HLA-A*11 add-on	0G5	3	15	10	25	50
	HLA-A*23 add-on	8F8	4	18	12	30	60
	HLA-A*01 add-on	0E6	3	15	10	25	50
	HLA-A*03 add-on	3F3	3	15	10	25	50
	HLA-A*24 add-on	3F2	4	18	12	30	60
	HLA-A*68 add-on	2E3	3	15	10	25	50
HLA-B	HLA-B*07 add-on	4E4	7	27	18	45	90
	HLA-B*39 add-on	4E2	3	15	10	25	50
	HLA-B*15 add-on	8E5	3	15	10	25	50
HLA-C	HLA-C*04 add-on	6E1	5	21	14	35	70
	HLA-C*07 add-on	0F6	8	30	20	50	100
	HLA-C*08 add-on	6E7	5	21	14	35	70
	HLA-C*15 add-on	5E7	4	18	12	30	60
HLA-DR	DRB1*14:01/14:54	0G7	3	15	10	25	50
	DRB1*04 add-on	4F1	4	18	12	30	60
	DRB1*12 add-on	9F3	4	18	12	30	60

KIR

Product Group	Product name	Lot No.	No. of Wells	PCR MM 3µl	DNA 2µl	dH ₂ O 5µl	Prepipetted SSP kits Sum in µl DNA + PCR MM + dH ₂ O
KIR	KIR Genotyping	9F1	27	93	62	155	310
	KIR HLA Ligand	39Y	7	27	18	45	90

OLERUP SSP
GENOMIC HLA TYPING

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