

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.

October 2017

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.

October 2017

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	7E7	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	4E0	16	54	36	90	180
Combi	A-B-DR	6E8	96	312	208	520	1040
	A-B-C	4E5	96	312	208	520	1040
	A-B-DR-DQ	5D9	96	312	208	520	1040
	DQ-DR	1E8	46	156	104	260	520
	DQA-DQB-DR Enhanced	5D8	96	312	208	520	1040

Calculation Tables:

Olerup SSP Kits including *Taq* Polymerase

HIGH RESOLUTION KITS

October 2017

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	7D9	96	312	208	520	1040
	HLA-A*03	6D5	64	210	150	350	700
	HLA-A*23	7E3	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	7D7	24	81	54	135	270
	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	5D2	32	108	72	180	360
	HLA-A*74	9D3	16	54	36	90	180
	HLA-A*80	5F3	5	21	14	35	70
	HLA-A*36	7E0	8	30	20	50	100
	HLA-A*68	4E1	48	162	108	270	540
	HLA-A*69	4F4	6	24	16	40	80

HIGH RESOLUTION KITS

October 2017

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*51	7E5	83	276	184	460	920
	HLA-B*52	4D5	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	7D8	64	210	140	350	700
	HLA-B*45	7D5	16	54	36	90	180
	HLA-B*13	9E7	31	105	70	175	350
	HLA-B*14	4D1	22	75	50	125	250
	HLA-B*15	3F7	96	312	208	520	1040
	HLA-B*38	5E3	27	93	62	155	310
	HLA-B*39	6D6	39	138	92	230	460
	HLA-B*57	7E2	32	108	72	180	360
	HLA-B*58	7E4	31	105	70	175	350
	HLA-B*18	5D1	32	108	72	180	360
	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
	HLA-B*27	5D3	45	156	104	260	520
	HLA-B*35	2E1	93	300	200	500	1000
	HLA-B*40	9D1	94	312	208	520	1040
	HLA-B*37	4D3	26	90	60	150	300
	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	5D5	22	75	50	125	250
	HLA-B*53	5E5	24	81	54	135	270
	HLA-B*59	4F0	10	36	24	60	120
	HLA-B*67	7E9	8	30	20	50	100
	HLA-B*73	80Y	4	18	12	30	60
	HLA-B*78	5F5	16	54	36	90	180
HLA-B*81	8E6	10	36	24	60	120	
HLA-B*82	2E6	6	24	16	40	80	

HIGH RESOLUTION KITS

October 2017

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-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	5D6	8	30	20	50	100
	HLA-C direct to high resolution for frequent alleles	0F2	96	312	208	520	1040
HLA-DR	DRB1*01	9E8	24	81	54	135	270
	DRB1*15	2F2	32	108	72	180	360
	DRB1*16	6D7	16	54	36	90	180
	DRB1*03	8E7	32	108	72	180	360
	DRB1*04	3F5	48	162	108	270	540
	DRB1*11	7D1	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	6D4	24	81	54	135	270
	DRB1*09	1D2	12	42	28	70	140
	DRB1*10	6D8	8	21	14	35	70
	DRB3	2E8	39	138	92	230	460
	DRB4	3D3	14	48	32	80	160
	DRB5	1E2	16	54	36	90	180
	DRA	52F	2	12	8	20	40

HIGH RESOLUTION KITS

October 2017

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-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	0F9	63	210	140	350	700
	DQB1*04	5E2	19	66	44	110	220
	B1 direct to high resolution for frequent alleles	2F4	96	312	208	520	1040
	DQA1	3F0	32	108	72	180	360
HLA-DP	DPB1	9D9	96	312	208	520	1040
	DPA1	2E0	16	54	36	90	180

SCREENING KITS FOR DISEASE ASSOCIATED HLA ALLELES

October 2017

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	0F4	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	3E2	21	72	48	120	240

NULL ALLELE KITS

October 2017

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	6E4	3	15	10	25	50
	DRB5*01:08N	5F6	3	15	10	25	50

ADD-ONS

October 2017

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	6E2	3	15	10	25	50
	HLA-A*23 add-on	8D6	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	7D6	3	15	10	25	50
	DRB1*04 add-on	4F1	4	18	12	30	60
	DRB1*12 add-on	9D0	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	9E6	26	90	60	150	300
	KIR HLA Ligand	39Y	7	27	18	45	90

OLERUP SSP
GENOMIC HLA TYPING

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