

## Supplementary material

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**Combination Screen SECSG I\***

Well	Compound buffer	Precipitant	Salt
1	100 mM citric acid/NaOH pH: 3.2	20 %v/v PEG-400	450 mM NaCl
2	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-400	300 mM NaCl
3	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-400	300 mM NaCl
4	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-400	600 mM NaCl
5	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-400	600 mM NaCl
6	100 mM citric acid/NaOH pH: 3.8	20 %v/v PEG-400	450 mM NaCl
7	100 mM NaAc/HCl pH: 4	29 %v/v PEG-400	450 mM NaCl
8	100 mM NaAc/HCl pH: 4	20 %v/v PEG-400	200 mM NaCl
9	100 mM NaAc/HCl pH: 4	20 %v/v PEG-400	700 mM NaCl
10	100 mM NaAc/HCl pH: 4	12 %v/v PEG-400	450 mM NaCl
11*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-400	450 mM NaCl
12*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-400	450 mM NaCl
13	100 mM NaAc/HCl pH: 4.2	20 %v/v PEG-400	450 mM NaCl
14	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-400	300 mM NaCl
15	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-400	300 mM NaCl
16	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-400	600 mM NaCl
17	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-400	600 mM NaCl
18*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-400	450 mM NaCl
19*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-400	450 mM NaCl
20	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-400	300 mM NaCl
21	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-400	300 mM NaCl
22	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-400	600 mM NaCl
23	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-400	600 mM NaCl
24	100 mM Na <sub>3</sub> citrate/HCl pH: 5.2	20 %v/v PEG-400	450 mM NaCl
25	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	29 %v/v PEG-400	450 mM NaCl

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26	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-400 200 mM NaCl
27	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-400 700 mM NaCl
28	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	12 %v/v PEG-400 450 mM NaCl
29	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-400 450 mM NaCl
30	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-400 450 mM NaCl
31	100 mM Na <sub>3</sub> citrate/HCl pH: 5.8	20 %v/v PEG-400 450 mM NaCl
32	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-400 300 mM NaCl
33	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-400 300 mM NaCl
34	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-400 600 mM NaCl
35	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-400 600 mM NaCl
36*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-400 450 mM NaCl
37*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-400 450 mM NaCl
38	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-400 300 mM NaCl
39	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-400 300 mM NaCl
40	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-400 600 mM NaCl
41	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-400 600 mM NaCl
42	100 mM Na cacodylate/HCl pH: 6.8	20 %v/v PEG-400 450 mM NaCl
43	100 mM Na HEPES/HCl pH: 7	29 %v/v PEG-400 450 mM NaCl
44	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-400 200 mM NaCl
45	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-400 700 mM NaCl
46	100 mM Na HEPES/HCl pH: 7	12 %v/v PEG-400 450 mM NaCl
47*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-400 450 mM NaCl
48*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-400 450 mM NaCl
49	100 mM Na HEPES/HCl pH: 7.2	20 %v/v PEG-400 450 mM NaCl
50	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-400 300 mM NaCl
51	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-400 300 mM NaCl
52	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-400 600 mM NaCl

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53	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-400 600 mM NaCl
54*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-400 450 mM NaCl
55*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-400 450 mM NaCl
56	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-400 300 mM NaCl
57	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-400 300 mM NaCl
58	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-400 600 mM NaCl
59	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-400 600 mM NaCl
60	100 mM Tris HCL/NaOH pH: 8.2	20 %v/v PEG-400 450 mM NaCl
61	100 mM Tris HCL/NaOH pH: 8.6	29 %v/v PEG-400 450 mM NaCl
62	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-400 200 mM NaCl
63	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-400 700 mM NaCl
64	100 mM Tris HCL/NaOH pH: 8.6	12 %v/v PEG-400 450 mM NaCl
65*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-400 450 mM NaCl
66*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-400 450 mM NaCl
67	100 mM Tris HCL/NaOH pH: 8.8	20 %v/v PEG-400 450 mM NaCl
68	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-400 300 mM NaCl
69	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-400 300 mM NaCl
70	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-400 600 mM NaCl
71	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-400 600 mM NaCl
72	100 mM CAPSO/NaOH pH: 9.4	20 %v/v PEG-400 450 mM NaCl

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\*A combination screen is made up of 72 conditions prepared by varying buffer, precipitant and salt. All combination screens have a similar composition except for the precipitant type, which is unique for each screen. Duplicated trials for internal comparison are denoted by a \*.

## Combination Screen SECSG II\*

Well	Compound buffer	Precipitant	Salt
1	100 mM citric acid/NaOH pH: 3.2	20 %v/v PEG-1000	450 mM NaCl
2	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-1000	300 mM NaCl
3	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-1000	300 mM NaCl
4	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-1000	600 mM NaCl
5	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-1000	600 mM NaCl
6	100 mM citric acid/NaOH pH: 3.8	20 %v/v PEG-1000	450 mM NaCl
7	100 mM NaAc/HCl pH: 4	29 %v/v PEG-1000	450 mM NaCl
8	100 mM NaAc/HCl pH: 4	20 %v/v PEG-1000	200 mM NaCl
9	100 mM NaAc/HCl pH: 4	20 %v/v PEG-1000	700 mM NaCl
10	100 mM NaAc/HCl pH: 4	12 %v/v PEG-1000	450 mM NaCl
11*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-1000	450 mM NaCl
12*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-1000	450 mM NaCl
13	100 mM NaAc/HCl pH: 4.2	20 %v/v PEG-1000	450 mM NaCl
14	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-1000	300 mM NaCl
15	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-1000	300 mM NaCl
16	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-1000	600 mM NaCl
17	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-1000	600 mM NaCl
18*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-1000	450 mM NaCl
19*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-1000	450 mM NaCl
20	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-1000	300 mM NaCl
21	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-1000	300 mM NaCl
22	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-1000	600 mM NaCl
23	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-1000	600 mM NaCl
24	100 mM Na <sub>3</sub> citrate/HCl pH: 5.2	20 %v/v PEG-1000	450 mM NaCl
25	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	29 %v/v PEG-1000	450 mM NaCl

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26	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-1000 200 mM NaCl
27	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-1000 700 mM NaCl
28	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	12 %v/v PEG-1000 450 mM NaCl
29	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-1000 450 mM NaCl
30	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-1000 450 mM NaCl
31	100 mM Na <sub>3</sub> citrate/HCl pH: 5.8	20 %v/v PEG-1000 450 mM NaCl
32	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-1000 300 mM NaCl
33	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-1000 300 mM NaCl
34	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-1000 600 mM NaCl
35	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-1000 600 mM NaCl
36*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-1000 450 mM NaCl
37*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-1000 450 mM NaCl
38	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-1000 300 mM NaCl
39	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-1000 300 mM NaCl
40	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-1000 600 mM NaCl
41	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-1000 600 mM NaCl
42	100 mM Na cacodylate/HCl pH: 6.8	20 %v/v PEG-1000 450 mM NaCl
43	100 mM Na HEPES/HCl pH: 7	29 %v/v PEG-1000 450 mM NaCl
44	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-1000 200 mM NaCl
45	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-1000 700 mM NaCl
46	100 mM Na HEPES/HCl pH: 7	12 %v/v PEG-1000 450 mM NaCl
47*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-1000 450 mM NaCl
48*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-1000 450 mM NaCl
49	100 mM Na HEPES/HCl pH: 7.2	20 %v/v PEG-1000 450 mM NaCl
50	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-1000 300 mM NaCl
51	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-1000 300 mM NaCl
52	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-1000 600 mM NaCl

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53	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-1000 600 mM NaCl
54*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-1000 450 mM NaCl
55*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-1000 450 mM NaCl
56	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-1000 300 mM NaCl
57	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-1000 300 mM NaCl
58	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-1000 600 mM NaCl
59	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-1000 600 mM NaCl
60	100 mM Tris HCL/NaOH pH: 8.2	20 %v/v PEG-1000 450 mM NaCl
61	100 mM Tris HCL/NaOH pH: 8.6	29 %v/v PEG-1000 450 mM NaCl
62	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-1000 200 mM NaCl
63	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-1000 700 mM NaCl
64	100 mM Tris HCL/NaOH pH: 8.6	12 %v/v PEG-1000 450 mM NaCl
65*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-1000 450 mM NaCl
66*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-1000 450 mM NaCl
67	100 mM Tris HCL/NaOH pH: 8.8	20 %v/v PEG-1000 450 mM NaCl
68	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-1000 300 mM NaCl
69	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-1000 300 mM NaCl
70	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-1000 600 mM NaCl
71	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-1000 600 mM NaCl
72	100 mM CAPSO/NaOH pH: 9.4	20 %v/v PEG-1000 450 mM NaCl

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\*A combination screen is made up of 72 conditions prepared by varying buffer, precipitant and salt. All combination screens have a similar composition except for the precipitant type, which is unique for each screen. Duplicated trials for internal comparison are denoted by a \*.

**Combination Screen SECSG III\***

Well	Compound buffer	Precipitant	Salt
1	100 mM citric acid/NaOH pH: 3.2	20 %v/v PEG-3000	450 mM NaCl
2	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-3000	300 mM NaCl
3	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-3000	300 mM NaCl
4	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-3000	600 mM NaCl
5	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-3000	600 mM NaCl
6	100 mM citric acid/NaOH pH: 3.8	20 %v/v PEG-3000	450 mM NaCl
7	100 mM NaAc/HCl pH: 4	29 %v/v PEG-3000	450 mM NaCl
8	100 mM NaAc/HCl pH: 4	20 %v/v PEG-3000	200 mM NaCl
9	100 mM NaAc/HCl pH: 4	20 %v/v PEG-3000	700 mM NaCl
10	100 mM NaAc/HCl pH: 4	12 %v/v PEG-3000	450 mM NaCl
11*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-3000	450 mM NaCl
12*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-3000	450 mM NaCl
13	100 mM NaAc/HCl pH: 4.2	20 %v/v PEG-3000	450 mM NaCl
14	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-3000	300 mM NaCl
15	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-3000	300 mM NaCl
16	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-3000	600 mM NaCl
17	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-3000	600 mM NaCl
18*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-3000	450 mM NaCl
19*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-3000	450 mM NaCl
20	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-3000	300 mM NaCl
21	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-3000	300 mM NaCl
22	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-3000	600 mM NaCl
23	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-3000	600 mM NaCl
24	100 mM Na <sub>3</sub> citrate/HCl pH: 5.2	20 %v/v PEG-3000	450 mM NaCl
25	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	29 %v/v PEG-3000	450 mM NaCl



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26	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-3000 200 mM NaCl
27	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-3000 700 mM NaCl
28	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	12 %v/v PEG-3000 450 mM NaCl
29	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-3000 450 mM NaCl
30	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-3000 450 mM NaCl
31	100 mM Na <sub>3</sub> citrate/HCl pH: 5.8	20 %v/v PEG-3000 450 mM NaCl
32	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-3000 300 mM NaCl
33	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-3000 300 mM NaCl
34	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-3000 600 mM NaCl
35	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-3000 600 mM NaCl
36*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-3000 450 mM NaCl
37*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-3000 450 mM NaCl
38	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-3000 300 mM NaCl
39	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-3000 300 mM NaCl
40	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-3000 600 mM NaCl
41	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-3000 600 mM NaCl
42	100 mM Na cacodylate/HCl pH: 6.8	20 %v/v PEG-3000 450 mM NaCl
43	100 mM Na HEPES/HCl pH: 7	29 %v/v PEG-3000 450 mM NaCl
44	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-3000 200 mM NaCl
45	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-3000 700 mM NaCl
46	100 mM Na HEPES/HCl pH: 7	12 %v/v PEG-3000 450 mM NaCl
47*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-3000 450 mM NaCl
48*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-3000 450 mM NaCl
49	100 mM Na HEPES/HCl pH: 7.2	20 %v/v PEG-3000 450 mM NaCl
50	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-3000 300 mM NaCl
51	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-3000 300 mM NaCl
52	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-3000 600 mM NaCl

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53	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-3000 600 mM NaCl
54*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-3000 450 mM NaCl
55*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-3000 450 mM NaCl
56	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-3000 300 mM NaCl
57	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-3000 300 mM NaCl
58	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-3000 600 mM NaCl
59	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-3000 600 mM NaCl
60	100 mM Tris HCL/NaOH pH: 8.2	20 %v/v PEG-3000 450 mM NaCl
61	100 mM Tris HCL/NaOH pH: 8.6	29 %v/v PEG-3000 450 mM NaCl
62	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-3000 200 mM NaCl
63	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-3000 700 mM NaCl
64	100 mM Tris HCL/NaOH pH: 8.6	12 %v/v PEG-3000 450 mM NaCl
65*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-3000 450 mM NaCl
66*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-3000 450 mM NaCl
67	100 mM Tris HCL/NaOH pH: 8.8	20 %v/v PEG-3000 450 mM NaCl
68	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-3000 300 mM NaCl
69	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-3000 300 mM NaCl
70	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-3000 600 mM NaCl
71	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-3000 600 mM NaCl
72	100 mM CAPSO/NaOH pH: 9.4	20 %v/v PEG-3000 450 mM NaCl

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\*A combination screen is made up of 72 conditions prepared by varying buffer, precipitant and salt. All combination screens have a similar composition except for the precipitant type, which is unique for each screen. Duplicated trials for internal comparison are denoted by a \*.

**Combination Screen SECSG IV\***

Well	Compound buffer	Precipitant	Salt
1	100 mM citric acid/NaOH pH: 3.2	20 %v/v PEG-3350	450 mM NaCl
2	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-3350	300 mM NaCl
3	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-3350	300 mM NaCl
4	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-3350	600 mM NaCl
5	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-3350	600 mM NaCl
6	100 mM citric acid/NaOH pH: 3.8	20 %v/v PEG-3350	450 mM NaCl
7	100 mM NaAc/HCl pH: 4	29 %v/v PEG-3350	450 mM NaCl
8	100 mM NaAc/HCl pH: 4	20 %v/v PEG-3350	200 mM NaCl
9	100 mM NaAc/HCl pH: 4	20 %v/v PEG-3350	700 mM NaCl
10	100 mM NaAc/HCl pH: 4	12 %v/v PEG-3350	450 mM NaCl
11*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-3350	450 mM NaCl
12*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-3350	450 mM NaCl
13	100 mM NaAc/HCl pH: 4.2	20 %v/v PEG-3350	450 mM NaCl
14	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-3350	300 mM NaCl
15	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-3350	300 mM NaCl
16	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-3350	600 mM NaCl
17	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-3350	600 mM NaCl
18*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-3350	450 mM NaCl
19*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-3350	450 mM NaCl
20	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-3350	300 mM NaCl
21	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-3350	300 mM NaCl
22	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-3350	600 mM NaCl
23	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-3350	600 mM NaCl
24	100 mM Na <sub>3</sub> citrate/HCl pH: 5.2	20 %v/v PEG-3350	450 mM NaCl
25	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	29 %v/v PEG-3350	450 mM NaCl

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26	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-3350 200 mM NaCl
27	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-3350 700 mM NaCl
28	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	12 %v/v PEG-3350 450 mM NaCl
29	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-3350 450 mM NaCl
30	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-3350 450 mM NaCl
31	100 mM Na <sub>3</sub> citrate/HCl pH: 5.8	20 %v/v PEG-3350 450 mM NaCl
32	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-3350 300 mM NaCl
33	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-3350 300 mM NaCl
34	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-3350 600 mM NaCl
35	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-3350 600 mM NaCl
36*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-3350 450 mM NaCl
37*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-3350 450 mM NaCl
38	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-3350 300 mM NaCl
39	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-3350 300 mM NaCl
40	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-3350 600 mM NaCl
41	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-3350 600 mM NaCl
42	100 mM Na cacodylate/HCl pH: 6.8	20 %v/v PEG-3350 450 mM NaCl
43	100 mM Na HEPES/HCl pH: 7	29 %v/v PEG-3350 450 mM NaCl
44	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-3350 200 mM NaCl
45	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-3350 700 mM NaCl
46	100 mM Na HEPES/HCl pH: 7	12 %v/v PEG-3350 450 mM NaCl
47*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-3350 450 mM NaCl
48*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-3350 450 mM NaCl
49	100 mM Na HEPES/HCl pH: 7.2	20 %v/v PEG-3350 450 mM NaCl
50	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-3350 300 mM NaCl
51	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-3350 300 mM NaCl
52	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-3350 600 mM NaCl

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53	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-3350 600 mM NaCl
54*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-3350 450 mM NaCl
55*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-3350 450 mM NaCl
56	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-3350 300 mM NaCl
57	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-3350 300 mM NaCl
58	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-3350 600 mM NaCl
59	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-3350 600 mM NaCl
60	100 mM Tris HCL/NaOH pH: 8.2	20 %v/v PEG-3350 450 mM NaCl
61	100 mM Tris HCL/NaOH pH: 8.6	29 %v/v PEG-3350 450 mM NaCl
62	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-3350 200 mM NaCl
63	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-3350 700 mM NaCl
64	100 mM Tris HCL/NaOH pH: 8.6	12 %v/v PEG-3350 450 mM NaCl
65*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-3350 450 mM NaCl
66*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-3350 450 mM NaCl
67	100 mM Tris HCL/NaOH pH: 8.8	20 %v/v PEG-3350 450 mM NaCl
68	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-3350 300 mM NaCl
69	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-3350 300 mM NaCl
70	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-3350 600 mM NaCl
71	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-3350 600 mM NaCl
72	100 mM CAPSO/NaOH pH: 9.4	20 %v/v PEG-3350 450 mM NaCl

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\*A combination screen is made up of 72 conditions prepared by varying buffer, precipitant and salt. All combination screens have a similar composition except for the precipitant type, which is unique for each screen. Duplicated trials for internal comparison are denoted by a \*.

**Combination Screen SECSG V\***

Well	Compound buffer	Precipitant	Salt
1	100 mM citric acid/NaOH pH: 3.2	20 %v/v PEG-4000	450 mM NaCl
2	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-4000	300 mM NaCl
3	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-4000	300 mM NaCl
4	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-4000	600 mM NaCl
5	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-4000	600 mM NaCl
6	100 mM citric acid/NaOH pH: 3.8	20 %v/v PEG-4000	450 mM NaCl
7	100 mM NaAc/HCl pH: 4	29 %v/v PEG-4000	450 mM NaCl
8	100 mM NaAc/HCl pH: 4	20 %v/v PEG-4000	200 mM NaCl
9	100 mM NaAc/HCl pH: 4	20 %v/v PEG-4000	700 mM NaCl
10	100 mM NaAc/HCl pH: 4	12 %v/v PEG-4000	450 mM NaCl
11*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-4000	450 mM NaCl
12*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-4000	450 mM NaCl
13	100 mM NaAc/HCl pH: 4.2	20 %v/v PEG-4000	450 mM NaCl
14	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-4000	300 mM NaCl
15	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-4000	300 mM NaCl
16	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-4000	600 mM NaCl
17	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-4000	600 mM NaCl
18*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-4000	450 mM NaCl
19*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-4000	450 mM NaCl
20	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-4000	300 mM NaCl
21	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-4000	300 mM NaCl
22	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-4000	600 mM NaCl
23	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-4000	600 mM NaCl
24	100 mM Na <sub>3</sub> citrate/HCl pH: 5.2	20 %v/v PEG-4000	450 mM NaCl
25	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	29 %v/v PEG-4000	450 mM NaCl

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26	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-4000 200 mM NaCl
27	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-4000 700 mM NaCl
28	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	12 %v/v PEG-4000 450 mM NaCl
29	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-4000 450 mM NaCl
30	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-4000 450 mM NaCl
31	100 mM Na <sub>3</sub> citrate/HCl pH: 5.8	20 %v/v PEG-4000 450 mM NaCl
32	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-4000 300 mM NaCl
33	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-4000 300 mM NaCl
34	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-4000 600 mM NaCl
35	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-4000 600 mM NaCl
36*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-4000 450 mM NaCl
37*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-4000 450 mM NaCl
38	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-4000 300 mM NaCl
39	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-4000 300 mM NaCl
40	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-4000 600 mM NaCl
41	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-4000 600 mM NaCl
42	100 mM Na cacodylate/HCl pH: 6.8	20 %v/v PEG-4000 450 mM NaCl
43	100 mM Na HEPES/HCl pH: 7	29 %v/v PEG-4000 450 mM NaCl
44	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-4000 200 mM NaCl
45	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-4000 700 mM NaCl
46	100 mM Na HEPES/HCl pH: 7	12 %v/v PEG-4000 450 mM NaCl
47*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-4000 450 mM NaCl
48*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-4000 450 mM NaCl
49	100 mM Na HEPES/HCl pH: 7.2	20 %v/v PEG-4000 450 mM NaCl
50	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-4000 300 mM NaCl
51	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-4000 300 mM NaCl
52	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-4000 600 mM NaCl

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53	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-4000 600 mM NaCl
54*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-4000 450 mM NaCl
55*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-4000 450 mM NaCl
56	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-4000 300 mM NaCl
57	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-4000 300 mM NaCl
58	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-4000 600 mM NaCl
59	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-4000 600 mM NaCl
60	100 mM Tris HCL/NaOH pH: 8.2	20 %v/v PEG-4000 450 mM NaCl
61	100 mM Tris HCL/NaOH pH: 8.6	29 %v/v PEG-4000 450 mM NaCl
62	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-4000 200 mM NaCl
63	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-4000 700 mM NaCl
64	100 mM Tris HCL/NaOH pH: 8.6	12 %v/v PEG-4000 450 mM NaCl
65*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-4000 450 mM NaCl
66*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-4000 450 mM NaCl
67	100 mM Tris HCL/NaOH pH: 8.8	20 %v/v PEG-4000 450 mM NaCl
68	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-4000 300 mM NaCl
69	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-4000 300 mM NaCl
70	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-4000 600 mM NaCl
71	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-4000 600 mM NaCl
72	100 mM CAPSO/NaOH pH: 9.4	20 %v/v PEG-4000 450 mM NaCl

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\*A combination screen is made up of 72 conditions prepared by varying buffer, precipitant and salt. All combination screens have a similar composition except for the precipitant type, which is unique for each screen. Duplicated trials for internal comparison are denoted by a \*.



**Combination Screen SECSG VI\***

Well	Compound buffer	Precipitant	Salt
1	100 mM citric acid/NaOH pH: 3.2	20 %v/v PEG-6000	450 mM NaCl
2	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-6000	300 mM NaCl
3	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-6000	300 mM NaCl
4	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-6000	600 mM NaCl
5	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-6000	600 mM NaCl
6	100 mM citric acid/NaOH pH: 3.8	20 %v/v PEG-6000	450 mM NaCl
7	100 mM NaAc/HCl pH: 4	29 %v/v PEG-6000	450 mM NaCl
8	100 mM NaAc/HCl pH: 4	20 %v/v PEG-6000	200 mM NaCl
9	100 mM NaAc/HCl pH: 4	20 %v/v PEG-6000	700 mM NaCl
10	100 mM NaAc/HCl pH: 4	12 %v/v PEG-6000	450 mM NaCl
11*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-6000	450 mM NaCl
12*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-6000	450 mM NaCl
13	100 mM NaAc/HCl pH: 4.2	20 %v/v PEG-6000	450 mM NaCl
14	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-6000	300 mM NaCl
15	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-6000	300 mM NaCl
16	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-6000	600 mM NaCl
17	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-6000	600 mM NaCl
18*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-6000	450 mM NaCl
19*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-6000	450 mM NaCl
20	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-6000	300 mM NaCl
21	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-6000	300 mM NaCl
22	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-6000	600 mM NaCl
23	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-6000	600 mM NaCl
24	100 mM Na <sub>3</sub> citrate/HCl pH: 5.2	20 %v/v PEG-6000	450 mM NaCl
25	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	29 %v/v PEG-6000	450 mM NaCl

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26	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-6000 200 mM NaCl
27	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-6000 700 mM NaCl
28	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	12 %v/v PEG-6000 450 mM NaCl
29	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-6000 450 mM NaCl
30	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-6000 450 mM NaCl
31	100 mM Na <sub>3</sub> citrate/HCl pH: 5.8	20 %v/v PEG-6000 450 mM NaCl
32	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-6000 300 mM NaCl
33	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-6000 300 mM NaCl
34	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-6000 600 mM NaCl
35	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-6000 600 mM NaCl
36*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-6000 450 mM NaCl
37*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-6000 450 mM NaCl
38	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-6000 300 mM NaCl
39	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-6000 300 mM NaCl
40	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-6000 600 mM NaCl
41	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-6000 600 mM NaCl
42	100 mM Na cacodylate/HCl pH: 6.8	20 %v/v PEG-6000 450 mM NaCl
43	100 mM Na HEPES/HCl pH: 7	29 %v/v PEG-6000 450 mM NaCl
44	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-6000 200 mM NaCl
45	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-6000 700 mM NaCl
46	100 mM Na HEPES/HCl pH: 7	12 %v/v PEG-6000 450 mM NaCl
47*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-6000 450 mM NaCl
48*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-6000 450 mM NaCl
49	100 mM Na HEPES/HCl pH: 7.2	20 %v/v PEG-6000 450 mM NaCl
50	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-6000 300 mM NaCl
51	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-6000 300 mM NaCl
52	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-6000 600 mM NaCl

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53	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-6000 600 mM NaCl
54*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-6000 450 mM NaCl
55*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-6000 450 mM NaCl
56	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-6000 300 mM NaCl
57	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-6000 300 mM NaCl
58	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-6000 600 mM NaCl
59	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-6000 600 mM NaCl
60	100 mM Tris HCL/NaOH pH: 8.2	20 %v/v PEG-6000 450 mM NaCl
61	100 mM Tris HCL/NaOH pH: 8.6	29 %v/v PEG-6000 450 mM NaCl
62	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-6000 200 mM NaCl
63	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-6000 700 mM NaCl
64	100 mM Tris HCL/NaOH pH: 8.6	12 %v/v PEG-6000 450 mM NaCl
65*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-6000 450 mM NaCl
66*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-6000 450 mM NaCl
67	100 mM Tris HCL/NaOH pH: 8.8	20 %v/v PEG-6000 450 mM NaCl
68	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-6000 300 mM NaCl
69	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-6000 300 mM NaCl
70	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-6000 600 mM NaCl
71	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-6000 600 mM NaCl
72	100 mM CAPSO/NaOH pH: 9.4	20 %v/v PEG-6000 450 mM NaCl

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\*A combination screen is made up of 72 conditions prepared by varying buffer, precipitant and salt. All combination screens have a similar composition except for the precipitant type, which is unique for each screen. Duplicated trials for internal comparison are denoted by a \*.

**Combination Screen SECSG VII\***

Well	Compound buffer	Precipitant	Salt
1	100 mM citric acid/NaOH pH: 3.2	20 %v/v PEG-8000	450 mM NaCl
2	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-8000	300 mM NaCl
3	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-8000	300 mM NaCl
4	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-8000	600 mM NaCl
5	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-8000	600 mM NaCl
6	100 mM citric acid/NaOH pH: 3.8	20 %v/v PEG-8000	450 mM NaCl
7	100 mM NaAc/HCl pH: 4	29 %v/v PEG-8000	450 mM NaCl
8	100 mM NaAc/HCl pH: 4	20 %v/v PEG-8000	200 mM NaCl
9	100 mM NaAc/HCl pH: 4	20 %v/v PEG-8000	700 mM NaCl
10	100 mM NaAc/HCl pH: 4	12 %v/v PEG-8000	450 mM NaCl
11*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-8000	450 mM NaCl
12*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-8000	450 mM NaCl
13	100 mM NaAc/HCl pH: 4.2	20 %v/v PEG-8000	450 mM NaCl
14	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-8000	300 mM NaCl
15	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-8000	300 mM NaCl
16	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-8000	600 mM NaCl
17	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-8000	600 mM NaCl
18*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-8000	450 mM NaCl
19*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-8000	450 mM NaCl
20	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-8000	300 mM NaCl
21	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-8000	300 mM NaCl
22	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-8000	600 mM NaCl
23	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-8000	600 mM NaCl
24	100 mM Na <sub>3</sub> citrate/HCl pH: 5.2	20 %v/v PEG-8000	450 mM NaCl
25	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	29 %v/v PEG-8000	450 mM NaCl

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26	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-8000 200 mM NaCl
27	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-8000 700 mM NaCl
28	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	12 %v/v PEG-8000 450 mM NaCl
29	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-8000 450 mM NaCl
30	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-8000 450 mM NaCl
31	100 mM Na <sub>3</sub> citrate/HCl pH: 5.8	20 %v/v PEG-8000 450 mM NaCl
32	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-8000 300 mM NaCl
33	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-8000 300 mM NaCl
34	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-8000 600 mM NaCl
35	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-8000 600 mM NaCl
36*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-8000 450 mM NaCl
37*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-8000 450 mM NaCl
38	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-8000 300 mM NaCl
39	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-8000 300 mM NaCl
40	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-8000 600 mM NaCl
41	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-8000 600 mM NaCl
42	100 mM Na cacodylate/HCl pH: 6.8	20 %v/v PEG-8000 450 mM NaCl
43	100 mM Na HEPES/HCl pH: 7	29 %v/v PEG-8000 450 mM NaCl
44	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-8000 200 mM NaCl
45	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-8000 700 mM NaCl
46	100 mM Na HEPES/HCl pH: 7	12 %v/v PEG-8000 450 mM NaCl
47*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-8000 450 mM NaCl
48*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-8000 450 mM NaCl
49	100 mM Na HEPES/HCl pH: 7.2	20 %v/v PEG-8000 450 mM NaCl
50	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-8000 300 mM NaCl
51	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-8000 300 mM NaCl
52	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-8000 600 mM NaCl

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53	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-8000 600 mM NaCl
54*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-8000 450 mM NaCl
55*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-8000 450 mM NaCl
56	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-8000 300 mM NaCl
57	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-8000 300 mM NaCl
58	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-8000 600 mM NaCl
59	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-8000 600 mM NaCl
60	100 mM Tris HCL/NaOH pH: 8.2	20 %v/v PEG-8000 450 mM NaCl
61	100 mM Tris HCL/NaOH pH: 8.6	29 %v/v PEG-8000 450 mM NaCl
62	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-8000 200 mM NaCl
63	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-8000 700 mM NaCl
64	100 mM Tris HCL/NaOH pH: 8.6	12 %v/v PEG-8000 450 mM NaCl
65*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-8000 450 mM NaCl
66*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-8000 450 mM NaCl
67	100 mM Tris HCL/NaOH pH: 8.8	20 %v/v PEG-8000 450 mM NaCl
68	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-8000 300 mM NaCl
69	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-8000 300 mM NaCl
70	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-8000 600 mM NaCl
71	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-8000 600 mM NaCl
72	100 mM CAPSO/NaOH pH: 9.4	20 %v/v PEG-8000 450 mM NaCl

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\*A combination screen is made up of 72 conditions prepared by varying buffer, precipitant and salt. All combination screens have a similar composition except for the precipitant type, which is unique for each screen. Duplicated trials for internal comparison are denoted by a \*.

**Combination Screen SECSG VIII\***

Well	Compound buffer	Precipitant	Salt
1	100 mM citric acid/NaOH pH: 3.2	20 %v/v PEG-10000	450 mM NaCl
2	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-10000	300 mM NaCl
3	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-10000	300 mM NaCl
4	100 mM citric acid/NaOH pH: 3.4	15 %v/v PEG-10000	600 mM NaCl
5	100 mM citric acid/NaOH pH: 3.4	25 %v/v PEG-10000	600 mM NaCl
6	100 mM citric acid/NaOH pH: 3.8	20 %v/v PEG-10000	450 mM NaCl
7	100 mM NaAc/HCl pH: 4	29 %v/v PEG-10000	450 mM NaCl
8	100 mM NaAc/HCl pH: 4	20 %v/v PEG-10000	200 mM NaCl
9	100 mM NaAc/HCl pH: 4	20 %v/v PEG-10000	700 mM NaCl
10	100 mM NaAc/HCl pH: 4	12 %v/v PEG-10000	450 mM NaCl
11*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-10000	450 mM NaCl
12*	100 mM NaAc/HCl pH: 4	20 %v/v PEG-10000	450 mM NaCl
13	100 mM NaAc/HCl pH: 4.2	20 %v/v PEG-10000	450 mM NaCl
14	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-10000	300 mM NaCl
15	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-10000	300 mM NaCl
16	100 mM NaAc/HCl pH: 4.4	15 %v/v PEG-10000	600 mM NaCl
17	100 mM NaAc/HCl pH: 4.4	25 %v/v PEG-10000	600 mM NaCl
18*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-10000	450 mM NaCl
19*	100 mM NaAc/HCl pH: 4.8	20 %v/v PEG-10000	450 mM NaCl
20	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-10000	300 mM NaCl
21	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-10000	300 mM NaCl
22	100 mM Na <sub>3</sub> citrate/HCl pH: 5	15 %v/v PEG-10000	600 mM NaCl
23	100 mM Na <sub>3</sub> citrate/HCl pH: 5	25 %v/v PEG-10000	600 mM NaCl
24	100 mM Na <sub>3</sub> citrate/HCl pH: 5.2	20 %v/v PEG-10000	450 mM NaCl
25	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	29 %v/v PEG-10000	450 mM NaCl

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26	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-10000	200 mM NaCl
27	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	20 %v/v PEG-10000	700 mM NaCl
28	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	12 %v/v PEG-10000	450 mM NaCl
29	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-10000	450 mM NaCl
30	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	20 %v/v PEG-10000	450 mM NaCl
31	100 mM Na <sub>3</sub> citrate/HCl pH: 5.8	20 %v/v PEG-10000	450 mM NaCl
32	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-10000	300 mM NaCl
33	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-10000	300 mM NaCl
34	100 mM Na cacodylate/HCl pH: 6	15 %v/v PEG-10000	600 mM NaCl
35	100 mM Na cacodylate/HCl pH: 6	25 %v/v PEG-10000	600 mM NaCl
36*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-10000	450 mM NaCl
37*	100 mM Na cacodylate/HCl pH: 6.4	20 %v/v PEG-10000	450 mM NaCl
38	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-10000	300 mM NaCl
39	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-10000	300 mM NaCl
40	100 mM Na cacodylate/HCl pH: 6.6	15 %v/v PEG-10000	600 mM NaCl
41	100 mM Na cacodylate/HCl pH: 6.6	25 %v/v PEG-10000	600 mM NaCl
42	100 mM Na cacodylate/HCl pH: 6.8	20 %v/v PEG-10000	450 mM NaCl
43	100 mM Na HEPES/HCl pH: 7	29 %v/v PEG-10000	450 mM NaCl
44	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-10000	200 mM NaCl
45	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-10000	700 mM NaCl
46	100 mM Na HEPES/HCl pH: 7	12 %v/v PEG-10000	450 mM NaCl
47*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-10000	450 mM NaCl
48*	100 mM Na HEPES/HCl pH: 7	20 %v/v PEG-10000	450 mM NaCl
49	100 mM Na HEPES/HCl pH: 7.2	20 %v/v PEG-10000	450 mM NaCl
50	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-10000	300 mM NaCl
51	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-10000	300 mM NaCl
52	100 mM Na HEPES/HCl pH: 7.4	15 %v/v PEG-10000	600 mM NaCl

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53	100 mM Na HEPES/HCl pH: 7.4	25 %v/v PEG-10000 600 mM NaCl
54*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-10000 450 mM NaCl
55*	100 mM Na HEPES/HCl pH: 7.8	20 %v/v PEG-10000 450 mM NaCl
56	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-10000 300 mM NaCl
57	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-10000 300 mM NaCl
58	100 mM Tris HCL/NaOH pH: 8	15 %v/v PEG-10000 600 mM NaCl
59	100 mM Tris HCL/NaOH pH: 8	25 %v/v PEG-10000 600 mM NaCl
60	100 mM Tris HCL/NaOH pH: 8.2	20 %v/v PEG-10000 450 mM NaCl
61	100 mM Tris HCL/NaOH pH: 8.6	29 %v/v PEG-10000 450 mM NaCl
62	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-10000 200 mM NaCl
63	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-10000 700 mM NaCl
64	100 mM Tris HCL/NaOH pH: 8.6	12 %v/v PEG-10000 450 mM NaCl
65*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-10000 450 mM NaCl
66*	100 mM Tris HCL/NaOH pH: 8.6	20 %v/v PEG-10000 450 mM NaCl
67	100 mM Tris HCL/NaOH pH: 8.8	20 %v/v PEG-10000 450 mM NaCl
68	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-10000 300 mM NaCl
69	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-10000 300 mM NaCl
70	100 mM CAPSO/NaOH pH: 9	15 %v/v PEG-10000 600 mM NaCl
71	100 mM CAPSO/NaOH pH: 9	25 %v/v PEG-10000 600 mM NaCl
72	100 mM CAPSO/NaOH pH: 9.4	20 %v/v PEG-10000 450 mM NaCl

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\*A combination screen is made up of 72 conditions prepared by varying buffer, precipitant and salt. All combination screens have a similar composition except for the precipitant type, which is unique for each screen. Duplicated trials for internal comparison are denoted by a \*.

**Combination Screen SECSG IX\***

Well	Compound buffer	Precipitant	Salt
1	100 mM citric acid/NaOH pH: 3.2	MPD	450 mM NaCl
2	100 mM citric acid/NaOH pH: 3.4	MPD	300 mM NaCl
3	100 mM citric acid/NaOH pH: 3.4	MPD	300 mM NaCl
4	100 mM citric acid/NaOH pH: 3.4	MPD	600 mM NaCl
5	100 mM citric acid/NaOH pH: 3.4	MPD	600 mM NaCl
6	100 mM citric acid/NaOH pH: 3.8	MPD	450 mM NaCl
7	100 mM NaAc/HCl pH: 4	MPD	450 mM NaCl
8	100 mM NaAc/HCl pH: 4	MPD	200 mM NaCl
9	100 mM NaAc/HCl pH: 4	MPD	700 mM NaCl
10	100 mM NaAc/HCl pH: 4	MPD	450 mM NaCl
11*	100 mM NaAc/HCl pH: 4	MPD	450 mM NaCl
12*	100 mM NaAc/HCl pH: 4	MPD	450 mM NaCl
13	100 mM NaAc/HCl pH: 4.2	MPD	450 mM NaCl
14	100 mM NaAc/HCl pH: 4.4	MPD	300 mM NaCl
15	100 mM NaAc/HCl pH: 4.4	MPD	300 mM NaCl
16	100 mM NaAc/HCl pH: 4.4	MPD	600 mM NaCl
17	100 mM NaAc/HCl pH: 4.4	MPD	600 mM NaCl
18*	100 mM NaAc/HCl pH: 4.8	MPD	450 mM NaCl
19*	100 mM NaAc/HCl pH: 4.8	MPD	450 mM NaCl
20	100 mM Na <sub>3</sub> citrate/HCl pH: 5	MPD	300 mM NaCl
21	100 mM Na <sub>3</sub> citrate/HCl pH: 5	MPD	300 mM NaCl
22	100 mM Na <sub>3</sub> citrate/HCl pH: 5	MPD	600 mM NaCl
23	100 mM Na <sub>3</sub> citrate/HCl pH: 5	MPD	600 mM NaCl
24	100 mM Na <sub>3</sub> citrate/HCl pH: 5.2	MPD	450 mM NaCl
25	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	MPD	450 mM NaCl

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26	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	MPD	200 mM NaCl
27	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	MPD	700 mM NaCl
28	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	MPD	450 mM NaCl
29	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	MPD	450 mM NaCl
30	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	MPD	450 mM NaCl
31	100 mM Na <sub>3</sub> citrate/HCl pH: 5.8	MPD	450 mM NaCl
32	100 mM Na cacodylate/HCl pH: 6	MPD	300 mM NaCl
33	100 mM Na cacodylate/HCl pH: 6	MPD	300 mM NaCl
34	100 mM Na cacodylate/HCl pH: 6	MPD	600 mM NaCl
35	100 mM Na cacodylate/HCl pH: 6	MPD	600 mM NaCl
36*	100 mM Na cacodylate/HCl pH: 6.4	MPD	450 mM NaCl
37*	100 mM Na cacodylate/HCl pH: 6.4	MPD	450 mM NaCl
38	100 mM Na cacodylate/HCl pH: 6.6	MPD	300 mM NaCl
39	100 mM Na cacodylate/HCl pH: 6.6	MPD	300 mM NaCl
40	100 mM Na cacodylate/HCl pH: 6.6	MPD	600 mM NaCl
41	100 mM Na cacodylate/HCl pH: 6.6	MPD	600 mM NaCl
42	100 mM Na cacodylate/HCl pH: 6.8	MPD	450 mM NaCl
43	100 mM Na HEPES/HCl pH: 7	MPD	450 mM NaCl
44	100 mM Na HEPES/HCl pH: 7	MPD	200 mM NaCl
45	100 mM Na HEPES/HCl pH: 7	MPD	700 mM NaCl
46	100 mM Na HEPES/HCl pH: 7	MPD	450 mM NaCl
47*	100 mM Na HEPES/HCl pH: 7	MPD	450 mM NaCl
48*	100 mM Na HEPES/HCl pH: 7	MPD	450 mM NaCl
49	100 mM Na HEPES/HCl pH: 7.2	MPD	450 mM NaCl
50	100 mM Na HEPES/HCl pH: 7.4	MPD	300 mM NaCl
51	100 mM Na HEPES/HCl pH: 7.4	MPD	300 mM NaCl
52	100 mM Na HEPES/HCl pH: 7.4	MPD	600 mM NaCl

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53	100 mM Na HEPES/HCl pH: 7.4	MPD	600 mM NaCl
54*	100 mM Na HEPES/HCl pH: 7.8	MPD	450 mM NaCl
55*	100 mM Na HEPES/HCl pH: 7.8	MPD	450 mM NaCl
56	100 mM Tris HCL/NaOH pH: 8	MPD	300 mM NaCl
57	100 mM Tris HCL/NaOH pH: 8	MPD	300 mM NaCl
58	100 mM Tris HCL/NaOH pH: 8	MPD	600 mM NaCl
59	100 mM Tris HCL/NaOH pH: 8	MPD	600 mM NaCl
60	100 mM Tris HCL/NaOH pH: 8.2	MPD	450 mM NaCl
61	100 mM Tris HCL/NaOH pH: 8.6	MPD	450 mM NaCl
62	100 mM Tris HCL/NaOH pH: 8.6	MPD	200 mM NaCl
63	100 mM Tris HCL/NaOH pH: 8.6	MPD	700 mM NaCl
64	100 mM Tris HCL/NaOH pH: 8.6	MPD	450 mM NaCl
65*	100 mM Tris HCL/NaOH pH: 8.6	MPD	450 mM NaCl
66*	100 mM Tris HCL/NaOH pH: 8.6	MPD	450 mM NaCl
67	100 mM Tris HCL/NaOH pH: 8.8	MPD	450 mM NaCl
68	100 mM CAPSO/NaOH pH: 9	MPD	300 mM NaCl
69	100 mM CAPSO/NaOH pH: 9	MPD	300 mM NaCl
70	100 mM CAPSO/NaOH pH: 9	MPD	600 mM NaCl
71	100 mM CAPSO/NaOH pH: 9	MPD	600 mM NaCl
72	100 mM CAPSO/NaOH pH: 9.4	MPD	450 mM NaCl

\*A combination screen is made up of 72 conditions prepared by varying buffer, precipitant and salt. All combination screens have a similar composition except for the precipitant type, which is unique for each screen. Duplicated trials for internal comparison are denoted by a \*.

**Combination Screen SECSG X\***

Well	Compound buffer	Precipitant	Salt
1	100 mM citric acid/NaOH pH: 3.2	Ammonium Sulfate	450 mM NaCl
2	100 mM citric acid/NaOH pH: 3.4	Ammonium Sulfate	300 mM NaCl
3	100 mM citric acid/NaOH pH: 3.4	Ammonium Sulfate	300 mM NaCl
4	100 mM citric acid/NaOH pH: 3.4	Ammonium Sulfate	600 mM NaCl
5	100 mM citric acid/NaOH pH: 3.4	Ammonium Sulfate	600 mM NaCl
6	100 mM citric acid/NaOH pH: 3.8	Ammonium Sulfate	450 mM NaCl
7	100 mM NaAc/HCl pH: 4	Ammonium Sulfate	450 mM NaCl
8	100 mM NaAc/HCl pH: 4	Ammonium Sulfate	200 mM NaCl
9	100 mM NaAc/HCl pH: 4	Ammonium Sulfate	700 mM NaCl
10	100 mM NaAc/HCl pH: 4	Ammonium Sulfate	450 mM NaCl
11*	100 mM NaAc/HCl pH: 4	Ammonium Sulfate	450 mM NaCl
12*	100 mM NaAc/HCl pH: 4	Ammonium Sulfate	450 mM NaCl
13	100 mM NaAc/HCl pH: 4.2	Ammonium Sulfate	450 mM NaCl
14	100 mM NaAc/HCl pH: 4.4	Ammonium Sulfate	300 mM NaCl
15	100 mM NaAc/HCl pH: 4.4	Ammonium Sulfate	300 mM NaCl
16	100 mM NaAc/HCl pH: 4.4	Ammonium Sulfate	600 mM NaCl
17	100 mM NaAc/HCl pH: 4.4	Ammonium Sulfate	600 mM NaCl
18*	100 mM NaAc/HCl pH: 4.8	Ammonium Sulfate	450 mM NaCl
19*	100 mM NaAc/HCl pH: 4.8	Ammonium Sulfate	450 mM NaCl
20	100 mM Na <sub>3</sub> citrate/HCl pH: 5	Ammonium Sulfate	300 mM NaCl
21	100 mM Na <sub>3</sub> citrate/HCl pH: 5	Ammonium Sulfate	300 mM NaCl
22	100 mM Na <sub>3</sub> citrate/HCl pH: 5	Ammonium Sulfate	600 mM NaCl
23	100 mM Na <sub>3</sub> citrate/HCl pH: 5	Ammonium Sulfate	600 mM NaCl
24	100 mM Na <sub>3</sub> citrate/HCl pH: 5.2	Ammonium Sulfate	450 mM NaCl
25	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	Ammonium Sulfate	450 mM NaCl

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26	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	Ammonium Sulfate 200 mM NaCl
27	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	Ammonium Sulfate 700 mM NaCl
28	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	Ammonium Sulfate 450 mM NaCl
29	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	Ammonium Sulfate 450 mM NaCl
30	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	Ammonium Sulfate 450 mM NaCl
31	100 mM Na <sub>3</sub> citrate/HCl pH: 5.8	Ammonium Sulfate 450 mM NaCl
32	100 mM Na cacodylate/HCl pH: 6	Ammonium Sulfate 300 mM NaCl
33	100 mM Na cacodylate/HCl pH: 6	Ammonium Sulfate 300 mM NaCl
34	100 mM Na cacodylate/HCl pH: 6	Ammonium Sulfate 600 mM NaCl
35	100 mM Na cacodylate/HCl pH: 6	Ammonium Sulfate 600 mM NaCl
36*	100 mM Na cacodylate/HCl pH: 6.4	Ammonium Sulfate 450 mM NaCl
37*	100 mM Na cacodylate/HCl pH: 6.4	Ammonium Sulfate 450 mM NaCl
38	100 mM Na cacodylate/HCl pH: 6.6	Ammonium Sulfate 300 mM NaCl
39	100 mM Na cacodylate/HCl pH: 6.6	Ammonium Sulfate 300 mM NaCl
40	100 mM Na cacodylate/HCl pH: 6.6	Ammonium Sulfate 600 mM NaCl
41	100 mM Na cacodylate/HCl pH: 6.6	Ammonium Sulfate 600 mM NaCl
42	100 mM Na cacodylate/HCl pH: 6.8	Ammonium Sulfate 450 mM NaCl
43	100 mM Na HEPES/HCl pH: 7	Ammonium Sulfate 450 mM NaCl
44	100 mM Na HEPES/HCl pH: 7	Ammonium Sulfate 200 mM NaCl
45	100 mM Na HEPES/HCl pH: 7	Ammonium Sulfate 700 mM NaCl
46	100 mM Na HEPES/HCl pH: 7	Ammonium Sulfate 450 mM NaCl
47*	100 mM Na HEPES/HCl pH: 7	Ammonium Sulfate 450 mM NaCl
48*	100 mM Na HEPES/HCl pH: 7	Ammonium Sulfate 450 mM NaCl
49	100 mM Na HEPES/HCl pH: 7.2	Ammonium Sulfate 450 mM NaCl
50	100 mM Na HEPES/HCl pH: 7.4	Ammonium Sulfate 300 mM NaCl
51	100 mM Na HEPES/HCl pH: 7.4	Ammonium Sulfate 300 mM NaCl
52	100 mM Na HEPES/HCl pH: 7.4	Ammonium Sulfate 600 mM NaCl

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53	100 mM Na HEPES/HCl pH: 7.4	Ammonium Sulfate 600 mM NaCl
54*	100 mM Na HEPES/HCl pH: 7.8	Ammonium Sulfate 450 mM NaCl
55*	100 mM Na HEPES/HCl pH: 7.8	Ammonium Sulfate 450 mM NaCl
56	100 mM Tris HCL/NaOH pH: 8	Ammonium Sulfate 300 mM NaCl
57	100 mM Tris HCL/NaOH pH: 8	Ammonium Sulfate 300 mM NaCl
58	100 mM Tris HCL/NaOH pH: 8	Ammonium Sulfate 600 mM NaCl
59	100 mM Tris HCL/NaOH pH: 8	Ammonium Sulfate 600 mM NaCl
60	100 mM Tris HCL/NaOH pH: 8.2	Ammonium Sulfate 450 mM NaCl
61	100 mM Tris HCL/NaOH pH: 8.6	Ammonium Sulfate 450 mM NaCl
62	100 mM Tris HCL/NaOH pH: 8.6	Ammonium Sulfate 200 mM NaCl
63	100 mM Tris HCL/NaOH pH: 8.6	Ammonium Sulfate 700 mM NaCl
64	100 mM Tris HCL/NaOH pH: 8.6	Ammonium Sulfate 450 mM NaCl
65*	100 mM Tris HCL/NaOH pH: 8.6	Ammonium Sulfate 450 mM NaCl
66*	100 mM Tris HCL/NaOH pH: 8.6	Ammonium Sulfate 450 mM NaCl
67	100 mM Tris HCL/NaOH pH: 8.8	Ammonium Sulfate 450 mM NaCl
68	100 mM CAPSO/NaOH pH: 9	Ammonium Sulfate 300 mM NaCl
69	100 mM CAPSO/NaOH pH: 9	Ammonium Sulfate 300 mM NaCl
70	100 mM CAPSO/NaOH pH: 9	Ammonium Sulfate 600 mM NaCl
71	100 mM CAPSO/NaOH pH: 9	Ammonium Sulfate 600 mM NaCl
72	100 mM CAPSO/NaOH pH: 9.4	Ammonium Sulfate 450 mM NaCl

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\*A combination screen is made up of 72 conditions prepared by varying buffer, precipitant and salt. All combination screens have a similar composition except for the precipitant type, which is unique for each screen. Duplicated trials for internal comparison are denoted by a \*.

**Combination Screen SECSG XI\***

Well	Compound buffer	Precipitant Salt
1	100 mM citric acid/NaOH pH: 3.2	Glycerol 450 mM NaCl
2	100 mM citric acid/NaOH pH: 3.4	Glycerol 300 mM NaCl
3	100 mM citric acid/NaOH pH: 3.4	Glycerol 300 mM NaCl
4	100 mM citric acid/NaOH pH: 3.4	Glycerol 600 mM NaCl
5	100 mM citric acid/NaOH pH: 3.4	Glycerol 600 mM NaCl
6	100 mM citric acid/NaOH pH: 3.8	Glycerol 450 mM NaCl
7	100 mM NaAc/HCl pH: 4	Glycerol 450 mM NaCl
8	100 mM NaAc/HCl pH: 4	Glycerol 200 mM NaCl
9	100 mM NaAc/HCl pH: 4	Glycerol 700 mM NaCl
10	100 mM NaAc/HCl pH: 4	Glycerol 450 mM NaCl
11*	100 mM NaAc/HCl pH: 4	Glycerol 450 mM NaCl
12*	100 mM NaAc/HCl pH: 4	Glycerol 450 mM NaCl
13	100 mM NaAc/HCl pH: 4.2	Glycerol 450 mM NaCl
14	100 mM NaAc/HCl pH: 4.4	Glycerol 300 mM NaCl
15	100 mM NaAc/HCl pH: 4.4	Glycerol 300 mM NaCl
16	100 mM NaAc/HCl pH: 4.4	Glycerol 600 mM NaCl
17	100 mM NaAc/HCl pH: 4.4	Glycerol 600 mM NaCl
18*	100 mM NaAc/HCl pH: 4.8	Glycerol 450 mM NaCl
19*	100 mM NaAc/HCl pH: 4.8	Glycerol 450 mM NaCl
20	100 mM Na <sub>3</sub> citrate/HCl pH: 5	Glycerol 300 mM NaCl
21	100 mM Na <sub>3</sub> citrate/HCl pH: 5	Glycerol 300 mM NaCl
22	100 mM Na <sub>3</sub> citrate/HCl pH: 5	Glycerol 600 mM NaCl
23	100 mM Na <sub>3</sub> citrate/HCl pH: 5	Glycerol 600 mM NaCl
24	100 mM Na <sub>3</sub> citrate/HCl pH: 5.2	Glycerol 450 mM NaCl
25	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	Glycerol 450 mM NaCl



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26	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	Glycerol	200 mM NaCl
27	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	Glycerol	700 mM NaCl
28	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	Glycerol	450 mM NaCl
29	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	Glycerol	450 mM NaCl
30	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	Glycerol	450 mM NaCl
31	100 mM Na <sub>3</sub> citrate/HCl pH: 5.8	Glycerol	450 mM NaCl
32	100 mM Na cacodylate/HCl pH: 6	Glycerol	300 mM NaCl
33	100 mM Na cacodylate/HCl pH: 6	Glycerol	300 mM NaCl
34	100 mM Na cacodylate/HCl pH: 6	Glycerol	600 mM NaCl
35	100 mM Na cacodylate/HCl pH: 6	Glycerol	600 mM NaCl
36*	100 mM Na cacodylate/HCl pH: 6.4	Glycerol	450 mM NaCl
37*	100 mM Na cacodylate/HCl pH: 6.4	Glycerol	450 mM NaCl
38	100 mM Na cacodylate/HCl pH: 6.6	Glycerol	300 mM NaCl
39	100 mM Na cacodylate/HCl pH: 6.6	Glycerol	300 mM NaCl
40	100 mM Na cacodylate/HCl pH: 6.6	Glycerol	600 mM NaCl
41	100 mM Na cacodylate/HCl pH: 6.6	Glycerol	600 mM NaCl
42	100 mM Na cacodylate/HCl pH: 6.8	Glycerol	450 mM NaCl
43	100 mM Na HEPES/HCl pH: 7	Glycerol	450 mM NaCl
44	100 mM Na HEPES/HCl pH: 7	Glycerol	200 mM NaCl
45	100 mM Na HEPES/HCl pH: 7	Glycerol	700 mM NaCl
46	100 mM Na HEPES/HCl pH: 7	Glycerol	450 mM NaCl
47*	100 mM Na HEPES/HCl pH: 7	Glycerol	450 mM NaCl
48*	100 mM Na HEPES/HCl pH: 7	Glycerol	450 mM NaCl
49	100 mM Na HEPES/HCl pH: 7.2	Glycerol	450 mM NaCl
50	100 mM Na HEPES/HCl pH: 7.4	Glycerol	300 mM NaCl
51	100 mM Na HEPES/HCl pH: 7.4	Glycerol	300 mM NaCl
52	100 mM Na HEPES/HCl pH: 7.4	Glycerol	600 mM NaCl

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53	100 mM Na HEPES/HCl pH: 7.4	Glycerol	600 mM NaCl
54*	100 mM Na HEPES/HCl pH: 7.8	Glycerol	450 mM NaCl
55*	100 mM Na HEPES/HCl pH: 7.8	Glycerol	450 mM NaCl
56	100 mM Tris HCL/NaOH pH: 8	Glycerol	300 mM NaCl
57	100 mM Tris HCL/NaOH pH: 8	Glycerol	300 mM NaCl
58	100 mM Tris HCL/NaOH pH: 8	Glycerol	600 mM NaCl
59	100 mM Tris HCL/NaOH pH: 8	Glycerol	600 mM NaCl
60	100 mM Tris HCL/NaOH pH: 8.2	Glycerol	450 mM NaCl
61	100 mM Tris HCL/NaOH pH: 8.6	Glycerol	450 mM NaCl
62	100 mM Tris HCL/NaOH pH: 8.6	Glycerol	200 mM NaCl
63	100 mM Tris HCL/NaOH pH: 8.6	Glycerol	700 mM NaCl
64	100 mM Tris HCL/NaOH pH: 8.6	Glycerol	450 mM NaCl
65*	100 mM Tris HCL/NaOH pH: 8.6	Glycerol	450 mM NaCl
66*	100 mM Tris HCL/NaOH pH: 8.6	Glycerol	450 mM NaCl
67	100 mM Tris HCL/NaOH pH: 8.8	Glycerol	450 mM NaCl
68	100 mM CAPSO/NaOH pH: 9	Glycerol	300 mM NaCl
69	100 mM CAPSO/NaOH pH: 9	Glycerol	300 mM NaCl
70	100 mM CAPSO/NaOH pH: 9	Glycerol	600 mM NaCl
71	100 mM CAPSO/NaOH pH: 9	Glycerol	600 mM NaCl
72	100 mM CAPSO/NaOH pH: 9.4	Glycerol	450 mM NaCl

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\*A combination screen is made up of 72 conditions prepared by varying buffer, precipitant and salt. All combination screens have a similar composition except for the precipitant type, which is unique for each screen. Duplicated trials for internal comparison are denoted by a \*.

**Combination Screen SECSG XII\***

Well	Compound buffer	Precipitant Salt
1	100 mM citric acid/NaOH pH: 3.2	Isopropanol 450 mM NaCl
2	100 mM citric acid/NaOH pH: 3.4	Isopropanol 300 mM NaCl
3	100 mM citric acid/NaOH pH: 3.4	Isopropanol 300 mM NaCl
4	100 mM citric acid/NaOH pH: 3.4	Isopropanol 600 mM NaCl
5	100 mM citric acid/NaOH pH: 3.4	Isopropanol 600 mM NaCl
6	100 mM citric acid/NaOH pH: 3.8	Isopropanol 450 mM NaCl
7	100 mM NaAc/HCl pH: 4	Isopropanol 450 mM NaCl
8	100 mM NaAc/HCl pH: 4	Isopropanol 200 mM NaCl
9	100 mM NaAc/HCl pH: 4	Isopropanol 700 mM NaCl
10	100 mM NaAc/HCl pH: 4	Isopropanol 450 mM NaCl
11*	100 mM NaAc/HCl pH: 4	Isopropanol 450 mM NaCl
12*	100 mM NaAc/HCl pH: 4	Isopropanol 450 mM NaCl
13	100 mM NaAc/HCl pH: 4.2	Isopropanol 450 mM NaCl
14	100 mM NaAc/HCl pH: 4.4	Isopropanol 300 mM NaCl
15	100 mM NaAc/HCl pH: 4.4	Isopropanol 300 mM NaCl
16	100 mM NaAc/HCl pH: 4.4	Isopropanol 600 mM NaCl
17	100 mM NaAc/HCl pH: 4.4	Isopropanol 600 mM NaCl
18*	100 mM NaAc/HCl pH: 4.8	Isopropanol 450 mM NaCl
19*	100 mM NaAc/HCl pH: 4.8	Isopropanol 450 mM NaCl
20	100 mM Na <sub>3</sub> citrate/HCl pH: 5	Isopropanol 300 mM NaCl
21	100 mM Na <sub>3</sub> citrate/HCl pH: 5	Isopropanol 300 mM NaCl
22	100 mM Na <sub>3</sub> citrate/HCl pH: 5	Isopropanol 600 mM NaCl
23	100 mM Na <sub>3</sub> citrate/HCl pH: 5	Isopropanol 600 mM NaCl
24	100 mM Na <sub>3</sub> citrate/HCl pH: 5.2	Isopropanol 450 mM NaCl
25	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	Isopropanol 450 mM NaCl

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26	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	Isopropanol 200 mM NaCl
27	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	Isopropanol 700 mM NaCl
28	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6	Isopropanol 450 mM NaCl
29	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	Isopropanol 450 mM NaCl
30	100 mM Na <sub>3</sub> citrate/HCl pH: 5.6*	Isopropanol 450 mM NaCl
31	100 mM Na <sub>3</sub> citrate/HCl pH: 5.8	Isopropanol 450 mM NaCl
32	100 mM Na cacodylate/HCl pH: 6	Isopropanol 300 mM NaCl
33	100 mM Na cacodylate/HCl pH: 6	Isopropanol 300 mM NaCl
34	100 mM Na cacodylate/HCl pH: 6	Isopropanol 600 mM NaCl
35	100 mM Na cacodylate/HCl pH: 6	Isopropanol 600 mM NaCl
36*	100 mM Na cacodylate/HCl pH: 6.4	Isopropanol 450 mM NaCl
37*	100 mM Na cacodylate/HCl pH: 6.4	Isopropanol 450 mM NaCl
38	100 mM Na cacodylate/HCl pH: 6.6	Isopropanol 300 mM NaCl
39	100 mM Na cacodylate/HCl pH: 6.6	Isopropanol 300 mM NaCl
40	100 mM Na cacodylate/HCl pH: 6.6	Isopropanol 600 mM NaCl
41	100 mM Na cacodylate/HCl pH: 6.6	Isopropanol 600 mM NaCl
42	100 mM Na cacodylate/HCl pH: 6.8	Isopropanol 450 mM NaCl
43	100 mM Na HEPES/HCl pH: 7	Isopropanol 450 mM NaCl
44	100 mM Na HEPES/HCl pH: 7	Isopropanol 200 mM NaCl
45	100 mM Na HEPES/HCl pH: 7	Isopropanol 700 mM NaCl
46	100 mM Na HEPES/HCl pH: 7	Isopropanol 450 mM NaCl
47*	100 mM Na HEPES/HCl pH: 7	Isopropanol 450 mM NaCl
48*	100 mM Na HEPES/HCl pH: 7	Isopropanol 450 mM NaCl
49	100 mM Na HEPES/HCl pH: 7.2	Isopropanol 450 mM NaCl
50	100 mM Na HEPES/HCl pH: 7.4	Isopropanol 300 mM NaCl
51	100 mM Na HEPES/HCl pH: 7.4	Isopropanol 300 mM NaCl
52	100 mM Na HEPES/HCl pH: 7.4	Isopropanol 600 mM NaCl

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53	100 mM Na HEPES/HCl pH: 7.4	Isopropanol 600 mM NaCl
54*	100 mM Na HEPES/HCl pH: 7.8	Isopropanol 450 mM NaCl
55*	100 mM Na HEPES/HCl pH: 7.8	Isopropanol 450 mM NaCl
56	100 mM Tris HCL/NaOH pH: 8	Isopropanol 300 mM NaCl
57	100 mM Tris HCL/NaOH pH: 8	Isopropanol 300 mM NaCl
58	100 mM Tris HCL/NaOH pH: 8	Isopropanol 600 mM NaCl
59	100 mM Tris HCL/NaOH pH: 8	Isopropanol 600 mM NaCl
60	100 mM Tris HCL/NaOH pH: 8.2	Isopropanol 450 mM NaCl
61	100 mM Tris HCL/NaOH pH: 8.6	Isopropanol 450 mM NaCl
62	100 mM Tris HCL/NaOH pH: 8.6	Isopropanol 200 mM NaCl
63	100 mM Tris HCL/NaOH pH: 8.6	Isopropanol 700 mM NaCl
64	100 mM Tris HCL/NaOH pH: 8.6	Isopropanol 450 mM NaCl
65*	100 mM Tris HCL/NaOH pH: 8.6	Isopropanol 450 mM NaCl
66*	100 mM Tris HCL/NaOH pH: 8.6	Isopropanol 450 mM NaCl
67	100 mM Tris HCL/NaOH pH: 8.8	Isopropanol 450 mM NaCl
68	100 mM CAPSO/NaOH pH: 9	Isopropanol 300 mM NaCl
69	100 mM CAPSO/NaOH pH: 9	Isopropanol 300 mM NaCl
70	100 mM CAPSO/NaOH pH: 9	Isopropanol 600 mM NaCl
71	100 mM CAPSO/NaOH pH: 9	Isopropanol 600 mM NaCl
72	100 mM CAPSO/NaOH pH: 9.4	Isopropanol 450 mM NaCl

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\*A combination screen is made up of 72 conditions prepared by varying buffer, precipitant and salt. All combination screens have a similar composition except for the precipitant type, which is unique for each screen. Duplicated trials for internal comparison are denoted by a \*.

Precipitant screen\*

Well	Precipitant
1	10 % v/v PEG-400
2	15 % v/v PEG-400
3	20 % v/v PEG-400
4	25 % v/v PEG-400
5	30 % v/v PEG-400
6	10 % w/v PEG-1000
7	15 % w/v PEG-1000
8	20 % w/v PEG-1000
9	25 % w/v PEG-1000
10	30 % w/v PEG-1000
11	10 % w/v PEG-3000
12	15 % w/v PEG-3000
13	20 % w/v PEG-3000
14	25 % w/v PEG-3000
15	30 % w/v PEG-3000
16	10 % w/v PEG-3350
17	15 % w/v PEG-3350
18	20 % w/v PEG-3350
19	25 % w/v PEG-3350
20	30 % w/v PEG-3350
21	10 % w/v PEG-4000
22	15 % w/v PEG-4000
23	20 % w/v PEG-4000
24	25 % w/v PEG-4000
25	30 % w/v PEG-4000
26	10 % w/v PEG-6000
27	15 % w/v PEG-6000
28	20 % w/v PEG-6000
29	25 % w/v PEG-6000
30	30 % w/v PEG-6000
31	10 % w/v PEG-8000
32	15 % w/v PEG-8000
33	20 % w/v PEG-8000
34	25 % w/v PEG-8000
35	30 % w/v PEG-8000

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36	10 % w/v PEG-10000
37	15 % w/v PEG-10000
38	20 % w/v PEG-10000
39	25 % w/v PEG-10000
40	30 % w/v PEG-10000
41	10 % v/v MPD
42	15 % v/v MPD
43	20 % v/v MPD
44	25 % v/v MPD
45	30 % v/v MPD
46	10 % w/v Ammonium Sulfate
47	15 % w/v Ammonium Sulfate
48	20 % w/v Ammonium Sulfate
49	25 % w/v Ammonium Sulfate
50	30 % w/v Ammonium Sulfate
51	10 % v/v Glycerol
52	15 % v/v Glycerol
53	20 % v/v Glycerol
54	25 % v/v Glycerol
55	30 % v/v Glycerol
56	10 % v/v Isopropanol
57	15 % v/v Isopropanol
58	20 % v/v Isopropanol
59	25 % v/v Isopropanol
60	30 % v/v Isopropanol

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\* Each protein is pre-screened using a precipitant screen to select the right combination screen for crystallization. A combination screen containing a precipitant that precipitated the protein at 25% or above concentration in the pre-screen is selected for crystallizing that protein.