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Supporting information for article:

**A Drunken Search in Crystallization Space**

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**Table S1** The 96 most successful commercial conditions found from the NR-SCC (ordered by success)

Rank	Frequency	Condition
1	95	30.000 w/v polyethylene glycol 4000 ; 0.100 M tris buffer class pH 8.5; 0.200 M magnesium chloride
2	85	2.000 M ammonium sulfate
3	80	20.000 w/v polyethylene glycol 3350 ; 0.200 M acetate non-buffer class
4	80	2.000 M ammonium sulfate ; 0.100 M tris buffer class pH 8.5
5	79	20.000 w/v polyethylene glycol 3350 ; 0.200 M citrate non-buffer class
6	78	0.100 M HEPES buffer class pH 7.5; 20.000 w/v polyethylene glycol 4000 ; 10.000 w/v 2-propanol
7	77	2.000 w/v polyethylene glycol 400 ; 2.000 M ammonium sulfate ; 0.100 M HEPES buffer class pH 7.5
8	75	1.400 M citrate non-buffer class ; 0.100 M HEPES buffer class pH 7.5
9	74	0.200 M acetate non-buffer class ; 0.100 M tris buffer class pH 8.5; 30.000 w/v polyethylene glycol 4000
10	64	0.200 M lithium sulfate ; 0.100 M tris buffer class pH 8.5; 30.000 w/v polyethylene glycol 4000
11	56	4.000 M sodium formate
12	54	0.200 M magnesium acetate ; 0.100 M sodium cacodylate pH 6.5; 20.000 w/v polyethylene glycol 8000
13	52	0.100 M bis-tris buffer class pH 5.5; 25.000 w/v polyethylene glycol 3350
14	50	0.100 M MES buffer class pH 6.5; 12.000 w/v polyethylene glycol 20000
15	50	0.200 M magnesium chloride ; 0.100 M bis-tris buffer class pH 5.5; 25.000 w/v polyethylene glycol 3350
16	49	30.000 w/v polyethylene glycol monomethyl ether 5000 ; 0.100 M MES buffer class pH 6.5; 0.200 M ammonium sulfate

17	46	20.000 w/v polyethylene glycol 3350 ; 0.200 M calcium chloride
18	43	0.100 M HEPES buffer class pH 7.5; 20.000 w/v polyethylene glycol 10000
19	43	20.000 w/v polyethylene glycol 3350 ; 0.200 M sodium formate
20	43	0.200 M ammonium sulfate ; 0.100 M bis-tris buffer class pH 5.5; 25.000 w/v polyethylene glycol 3350
21	43	1.600 M citrate non-buffer class
22	42	0.100 M HEPES buffer class pH 7.5; 0.200 M calcium chloride ; 28.000 w/v polyethylene glycol 400
23	42	20.000 w/v polyethylene glycol 3350 ; 0.200 M ammonium chloride
24	42	0.200 M magnesium formate ; 20.000 w/v polyethylene glycol 3350
25	42	0.200 M ammonium sulfate ; 25.000 w/v polyethylene glycol 4000 ; 0.100 M acetate buffer class pH 4.6
26	41	2.400 M malonate non-buffer class
27	41	0.200 M lithium sulfate ; 0.100 M bis-tris buffer class pH 5.5; 25.000 w/v polyethylene glycol 3350
28	41	0.200 M potassium sodium tartrate ; 20.000 w/v polyethylene glycol 3350
29	40	0.200 M ammonium sulfate ; 0.100 M sodium cacodylate pH 6.5; 30.000 w/v polyethylene glycol 8000
30	40	0.100 M acetate buffer class pH 4.6; 2.000 M ammonium sulfate
31	40	0.100 M HEPES buffer class pH 7.5; 25.000 w/v polyethylene glycol 3350
32	39	0.200 M magnesium chloride ; 0.100 M bis-tris buffer class pH 6.5; 25.000 w/v polyethylene glycol 3350
33	39	0.200 M magnesium chloride ; 0.100 M tris buffer class pH 8.5; 25.000 w/v polyethylene glycol 3350
34	39	25.000 w/v polyethylene glycol 3350 ; 0.100 M HEPES buffer class pH 7.5; 0.200 M magnesium chloride
35	38	0.200 M acetate non-buffer class ; 0.100 M sodium cacodylate pH 6.5; 30.000 w/v polyethylene glycol 8000
36	37	0.200 M acetate non-buffer class ; 0.100 M bis-tris buffer class pH 5.5; 25.000 w/v

		polyethylene glycol 3350
37	36	1.500 M lithium sulfate ; 0.100 M HEPES buffer class pH 7.5
38	34	0.100 M citrate buffer class pH 5.5; 20.000 w/v polyethylene glycol 3000
39	34	25.000 w/v polyethylene glycol 1500
40	34	0.200 M potassium thiocyanate ; 20.000 w/v polyethylene glycol 3350
41	33	0.200 M acetate non-buffer class ; 0.100 M sodium cacodylate pH 6.5; 18.000 w/v polyethylene glycol 8000
42	33	0.200 M lithium sulfate ; 25.000 w/v polyethylene glycol 3350 ; 0.100 M HEPES buffer class pH 7.5
43	33	0.200 M ammonium sulfate ; 30.000 w/v polyethylene glycol 8000
44	33	20.000 w/v polyethylene glycol monomethyl ether 5000 ; 0.100 M bis-tris buffer class pH 6.5
45	32	0.200 M ammonium sulfate ; 0.100 M acetate buffer class pH 4.6; 30.000 w/v polyethylene glycol monomethyl ether 2000
46	32	0.100 M bis-tris buffer class pH 6.5; 0.200 M lithium sulfate ; 25.000 w/v polyethylene glycol 3350
47	32	8.000 w/v polyethylene glycol 4000 ; 0.100 M acetate buffer class pH 4.6
48	32	2.000 M ammonium sulfate ; 0.100 M bis-tris buffer class pH 6.5
49	32	2.000 M ammonium sulfate ; 0.100 M bis-tris buffer class pH 5.5
50	32	25.000 w/v polyethylene glycol 3350
51	30	0.200 M magnesium chloride ; 0.100 M HEPES buffer class pH 7.5; 30.000 w/v polyethylene glycol 400
52	30	2.000 M ammonium sulfate ; 0.100 M HEPES buffer class pH 7.5
53	30	3.500 M sodium formate
54	29	1.600 M magnesium sulfate ; 0.100 M MES buffer class pH 6.5
55	29	20.000 w/v polyethylene glycol 3350 ; 0.200 M magnesium chloride
56	29	0.200 M ammonium sulfate ; 30.000 w/v polyethylene glycol 4000
57	29	0.100 M potassium thiocyanate ; 30.000 w/v polyethylene glycol monomethyl ether 2000

58	29	0.200 M malonate non-buffer class ; 20.000 w/v polyethylene glycol 3350
59	29	0.100 M acetate buffer class pH 4.6; 2.000 M sodium formate
60	29	0.200 M ammonium sulfate ; 25.000 w/v polyethylene glycol 3350 ; 0.100 M HEPES buffer class pH 7.5
61	29	0.200 M potassium sodium tartrate ; 0.100 M citrate buffer class pH 5.6; 2.000 M ammonium sulfate
62	28	0.100 M HEPES buffer class pH 7.5; 0.200 M acetate non-buffer class ; 25.000 w/v polyethylene glycol 3350
63	28	0.200 M ammonium sulfate ; 20.000 w/v polyethylene glycol 3350
64	28	1.000 M citrate non-buffer class ; 0.100 M sodium cacodylate pH 6.5
65	28	0.200 M ammonium sulfate ; 0.100 M bis-tris buffer class pH 6.5; 25.000 w/v polyethylene glycol 3350
66	28	20.000 w/v polyethylene glycol 3350 ; 0.200 M ammonium nitrate
67	28	20.000 w/v polyethylene glycol 3350 ; 0.200 M sodium thiocyanate
68	27	0.200 M potassium nitrate pH 6.9; 20.000 w/v polyethylene glycol 3350
69	27	0.100 M HEPES buffer class pH 7.5; 20.000 w/v polyethylene glycol 8000
70	27	0.200 M magnesium acetate ; 20.000 w/v polyethylene glycol 3350
71	27	0.100 M bis-tris buffer class pH 6.5; 25.000 w/v polyethylene glycol 3350
72	26	30.000 w/v 2-methyl-2,4-pentanediol ; 0.100 M acetate buffer class pH 4.6; 0.020 M calcium chloride
73	25	0.200 M acetate non-buffer class ; 0.100 M MES buffer class pH 6.0; 20.000 w/v polyethylene glycol 8000
74	25	20.000 w/v polyethylene glycol 3350 ; 0.200 M sodium sulfate
75	25	25.000 w/v polyethylene glycol monomethyl ether 550 ; 0.100 M MES buffer class pH 6.5; 0.010 M zinc sulfate
76	25	0.200 M disodium tartrate ; 20.000 w/v polyethylene glycol 3350
77	24	60.000 w/v tacsimate pH 7.0
78	24	0.500 M ammonium sulfate ; 0.100 M citrate buffer class pH 5.6; 1.000 M lithium sulfate

79	24	30.000 w/v polyethylene glycol 1500
80	24	0.200 M magnesium chloride ; 0.100 M tris buffer class pH 8.5; 20.000 w/v polyethylene glycol 8000
81	24	20.000 w/v polyethylene glycol 3350 ; 0.200 M diammonium tartrate
82	24	0.2000 M sodium fluoride ; 20.000 w/v polyethylene glycol 3350
83	23	0.200 M sodium chloride ; 2.000 M ammonium sulfate ; 0.100 M sodium cacodylate pH 6.5
84	23	0.100 M sodium chloride ; 0.100 M HEPES buffer class pH 7.5; 1.600 M ammonium sulfate
85	23	0.200 M ammonium formate ; 20.000 w/v polyethylene glycol 3350
86	23	20.000 w/v polyethylene glycol 3350 ; 0.200 M trilitium citrate
87	22	0.200 M ammonium iodide ; 20.000 w/v polyethylene glycol 3350
88	22	0.200 M acetate non-buffer class ; 0.100 M bis-tris buffer class pH 6.5; 25.000 w/v polyethylene glycol 3350
89	21	30.000 w/v polyethylene glycol 4000
90	21	0.100 M tris buffer class pH 8.5; 25.000 w/v polyethylene glycol 3350
91	21	20.000 w/v polyethylene glycol 3350 ; 0.200 M ammonium fluoride
92	21	0.100 M acetate non-buffer class ; 0.100 M bis-tris buffer class pH 5.5; 17.000 w/v polyethylene glycol 10000
93	21	0.200 M acetate non-buffer class ; 0.100 M imidazole pH 8.0; 10.000 w/v polyethylene glycol 8000
94	21	0.200 M ammonium sulfate ; 25.000 w/v polyethylene glycol 3350 ; 0.100 M tris buffer class pH 8.5
95	21	20.000 w/v polyethylene glycol 8000 ; 0.100 M CHES non-buffer class
96	20	0.100 M HEPES buffer class pH 7.5; 4.300 M sodium chloride