

Condition #	Well	Salt	Buffer	Precipitant
1	A1		0.1 M Sodium Acetate: Acetic Acid, pH 4.5	20 % (w/v) PEG 3000
2	A2	0.2 M Sodium Chloride	0.1 M HEPES: NaOH, pH 7.5	35 % (v/v) MPD
3	A3		0.1 M CHES: NaOH, pH 9.5	10 % (w/v) PEG 3000
4	A4		0.1 M CHES: NaOH, pH 9.5	15 % (v/v) Ethanol
5	A5		0.1 M Na ₂ HPO ₄ /KH ₂ PO ₄ , pH 6.2	10 % (w/v) PEG 3000
6	A6		0.1 M Tris: HCl, pH 8.5	10 % (v/v) Isopropanol
7	A7	0.2 M Zinc Acetate	0.1 M Imidazole: HCl, pH 8	2.5 M Sodium Chloride
8	A8		0.1 M Sodium Acetate: Acetic Acid, pH 4.5	35 % (v/v) MPD
9	A9	0.2 M Magnesium Chloride	0.1 M Sodium Cacodylate: HCl, pH 6.5	20 % (w/v) PEG 1000
10	A10	0.2 M Zinc Acetate	0.1 M MES: NaOH, pH 6	15 % (v/v) Ethanol
11	A11	0.2 M Sodium Chloride	0.1 M Tris: HCl, pH 7	35 % (v/v) MPD
12	A12		0.1 M Bis-Tris Propane: HCl, pH 7	4 M Sodium Nitrate
13	B1		0.1 M Bis-Tris Propane: HCl, pH 7	2.4 M DL-Malic Acid, pH 7.0
14	B2		0.1 M Bis-Tris Propane: HCl, pH 7	1.2 M Potassium Sodium Tartrate
15	B3		0.1 M Sodium Acetate: HCl, pH 4.6	1.5 M Lithium Sulfate
16	B4		0.1 M Bis-Tris Propane: HCl, pH 7	0.7 M Magnesium Formate
17	B5		0.1 M Bis-Tris Propane: HCl, pH 7	0.6 M Potassium Sodium Tartrate
18	B6		0.1 M Tris: HCl, pH 8.5	0.7 M Sodium Citrate
19	B7		0.1 M Tris: HCl, pH 8.5	6 M Ammonium Nitrate
20	B8		0.1 M Sodium Acetate: HCl, pH 4.6	1.5 M Ammonium Chloride
21	B9		0.1 M Bis-Tris Propane: HCl, pH 7	0.4 M Magnesium Formate
22	B10		0.1 M Bis-Tris Propane: HCl, pH 7	1.2 M DL-Malic Acid, pH 7.0
23	B11		0.1 M Bis-Tris Propane: HCl, pH 7	1 M Magnesium Sulfate
24	B12		0.1 M Sodium Acetate: HCl, pH 4.6	0.4 M Magnesium Formate
25	C1		0.1 M Bis-Tris Propane: HCl, pH 7	2 M Ammonium Citrate Dibasic
26	C2		0.1 M Tris: HCl, pH 8.5	1.2 M Sodium Citrate
27	C3		0.1 M Tris: HCl, pH 8.5	3.5 M Sodium Formate
28	C4		0.1 M Bis-Tris Propane: HCl, pH 7	35 % (v/v) Microlytic Mix ⁽¹⁾
29	C5		0.1 M Sodium Acetate: HCl, pH 4.6	1 M Magnesium Sulfate
30	C6		0.1 M Sodium Acetate : HCl, pH 4.6	1 M Ammonium Citrate Dibasic
31	C7			1 M NaH ₂ PO ₄ /K ₂ HPO ₄ , pH 5.0
32	C8		0.1 M Bis-Tris Propane: HCl, pH 7	2.2 M DL-Malic Acid, pH 7.0
33	C9		0.1 M Bis-Tris Propane: HCl, pH 7	60 % (v/v) Microlytic Mix ⁽¹⁾
34	C10			1 M NaH ₂ PO ₄ /K ₂ HPO ₄ , pH 8.2
35	C11		0.1 M Bis-Tris Propane: HCl, pH 7	0.5 M Sodium Succinate, pH 7.0
36	C12		0.1 M Sodium Acetate: HCl, pH 4.6	1.1 M Ammonium Tartrate Dibasic
37	D1	0.2 M Lithium Sulfate	0.1 M Sodium Acetate: Acetic Acid, pH 4.5	50 % (v/v) PEG 400
38	D2	0.2 M Lithium Sulfate	0.1 M Tris: HCl, pH 8.5	40 % (v/v) PEG 400
39	D3	0.14 M Calcium Chloride	0.07 M Sodium Acetate: HCl, pH 4.6	14 % (v/v) Isopropanol, 30 % (v/v) Glycerol
40	D4		0.1 M Tris: HCl, pH 8.5	1 M Magnesium Sulfate
41	D5		0.1 M HEPES: NaOH, pH 7	2 % (w/v) PEG 3350, 15 % (v/v) Microlytic Mix ⁽¹⁾ , pH 7.0
42	D6	0.2 M Ammonium Acetate	0.1 M Bis-Tris: HCl, pH 5.5	45 % (v/v) MPD
43	D7	0.2 M Lithium Sulfate	0.1 M MES: NaOH, pH 6	20 % (v/v) 1,4-Butanediol
44	D8	0.2 M Lithium Sulfate	0.1 M Sodium Citrate: Citric Acid, pH 5.5	15 % (v/v) Ethanol
45	D9		0.1 M Na ₂ HPO ₄ /KH ₂ PO ₄ , pH 6.2	35 % (v/v) MPD
46	D10	0.2 M Lithium Sulfate	0.1 M MES: NaOH, pH 6	35 % (v/v) MPD
47	D11		0.1 M CAPS: NaOH, pH 10.5	30 % (v/v) PEG 400
48	D12	0.2 M Magnesium Chloride	0.1 M HEPES : NaOH, pH 7.5	15 % (v/v) PEG 400
49	E1	0.2 M Sodium Citrate	0.1 M Tris: HCl, pH 8.5	15 % (v/v) PEG 400
50	E2	0.1 M Magnesium Chloride	0.1 M Sodium Acetate: HCl, pH 4.6	25 % (v/v) PEG 400
51	E3	0.2 M Lithium Sulfate	0.1 M Tris: HCl, pH 8.5	25 % (v/v) PEG 400
52	E4	0.1 M Calcium Chloride	0.1 M Sodium Acetate: HCl, pH 4.6	30 % (v/v) PEG 400
53	E5	0.1 M Sodium Acetate	0.1 M MES: NaOH, pH 6.5	30 % (v/v) PEG 400
54	E6	0.1 M Magnesium Chloride	0.1 M MES: NaOH, pH 6.5	30 % (v/v) PEG 400
55	E7		0.1 M HEPES: NaOH, pH 7.5	25 % (w/v) PEG 1000
56	E8		0.1 M Tris: HCl, pH 8.5	30 % (w/v) PEG 1000
57	E9			15 % (w/v) PEG 1500
58	E10	0.01 M Nickel (II) Chloride	0.1 M Tris: HCl, pH 8.5	20 % (w/v) PEG 2000 MME
59	E11			25 % (w/v) PEG 2000 MME
60	E12	0.1 M Sodium Acetate	0.1 M MES: NaOH, pH 6.5	30 % (w/v) PEG 2000 MME
61	F1	0.2 M Sodium Acetate	0.1 M HEPES: NaOH, pH 7.5	20 % (w/v) PEG 3000
62	F2		0.1 M Sodium Acetate: HCl, pH 4.6	4 % (w/v) PEG 4000
63	F3	0.2 M Sodium Acetate	0.1 M Tris: HCl, pH 8.5	16 % (w/v) PEG 4000
64	F4	0.2 M Magnesium Chloride	0.1 M Tris: HCl, pH 8.5	16 % (w/v) PEG 4000
65	F5	0.2 M Lithium Sulfate	0.1 M Tris: HCl, pH 8.5	20 % (w/v) PEG 4000
66	F6	0.1 M Sodium Acetate	0.1 M HEPES: NaOH, pH 7.5	22 % (w/v) PEG 4000
67	F7	0.2 M Magnesium Chloride	0.1 M MES: NaOH, pH 6.5	25 % (w/v) PEG 4000
68	F8		0.1 M MES: NaOH, pH 6.5	30 % (w/v) PEG 4000
69	F9	0.2 M Calcium Chloride	0.1 M HEPES: NaOH, pH 7.5	30 % (w/v) PEG 4000
70	F10	0.2 M Lithium Sulfate	0.1 M Tris: HCl, pH 8.5	30 % (w/v) PEG 4000
71	F11	0.2 M Sodium Acetate	0.1 M Tris: HCl, pH 8.5	30 % (w/v) PEG 4000
72	F12	0.2 M Magnesium Chloride	0.1 M Tris: HCl, pH 8.5	30 % (w/v) PEG 4000
73	G1			35 % (w/v) PEG 4000
74	G2	0.8 M Lithium Chloride	0.1 M Tris: HCl, pH 8.5	8 % (w/v) PEG 4000
75	G3			10 % (w/v) PEG 4000, 20 % (v/v) Isopropanol
76	G4		0.1 M Sodium Citrate: HCl, pH 5.6	10 % (w/v) PEG 4000, 10 % (v/v) Isopropanol
77	G5		0.1 M HEPES: NaOH, pH 7.5	10 % (w/v) PEG 4000, 5 % (v/v) Isopropanol
78	G6	0.2 M Ammonium Sulfate		15 % (w/v) PEG 4000
79	G7	0.2 M Ammonium Sulfate	0.1 M Sodium Citrate: HCl, pH 5.6	15 % (w/v) PEG 4000
80	G8	0.2 M Magnesium Sulfate		20 % (w/v) PEG 4000, 10 % (v/v) Glycerol
81	G9	0.1 M Sodium Citrate		20 % (w/v) PEG 4000, 5 % (v/v) Isopropanol
82	G10	0.1 M Sodium Citrate		20 % (w/v) PEG 4000, 20 % (v/v) Isopropanol
83	G11		0.1 M HEPES: NaOH, pH 7.5	20 % (w/v) PEG 4000, 10 % (v/v) Isopropanol
84	G12	0.1 M Sodium Acetate		22 % (w/v) PEG 4000, 0.2 M Ammonium Sulfate
85	H1	0.1 M Sodium Acetate	0.1 M HEPES: NaOH, pH 7.5	25 % (w/v) PEG 4000, 0.2 M Lithium Sulfate
86	H2	0.1 M Sodium Acetate		25 % (w/v) PEG 4000, 8 % (v/v) Isopropanol
87	H3	0.2 M Ammonium Sulfate	0.1 M MES: NaOH, pH 6.5	30 % (w/v) PEG 5000 MME
88	H4	2 M Sodium Chloride		12 % (w/v) PEG 6000
89	H5	0.1 M Lithium Chloride	0.1 M HEPES: NaOH, pH 7.5	25 % (w/v) PEG 6000
90	H6	0.01 M Sodium Citrate		33 % (w/v) PEG 6000
91	H7	0.5 M Lithium Sulfate		2 % (w/v) PEG 8000
92	H8	1 M Lithium Sulfate		2 % (w/v) PEG 8000
93	H9	0.05 M Magnesium Sulfate		8 % (w/v) PEG 8000, 0.2 M Lithium Chloride
94	H10	0.2 M Zinc Acetate	0.1 M Imidazole: HCl, pH 6.5	10 % (w/v) PEG 8000
95	H11	0.2 M Calcium Acetate Hydrate	0.1 M HEPES: NaOH, pH 7.5	10 % (w/v) PEG 8000
96	H12	0.2 M Magnesium Acetate		10 % (w/v) PEG 8000

⁽¹⁾Microlytic Mix is comprised of 1.8305 M Malonic Acid, 0.25 M Ammonium Citrate Tribasic, 0.12 M Succinic Acid, 0.3 M DL-Malic Acid, 0.4 M Sodium Acetate Trihydrate, 0.5 M Sodium Formate, 0.16 M Ammonium Tartrate Dibasic. [McPherson, A. and Cudney, B. (2006) *J. Struct. Biol.* **156**(3), 387-406.] Microlytic Mix at pH 7.0 is titrated with HCl. This mix is available from Anatrace, Product Nos. OPTIMIZE-131 and OPTIMIZE-132.