

Condition #	Well	Salt	Buffer	Precipitant
1	A1		0.1 M Sodium Cacodylate: HCl, pH 6.5	1 M Sodium Citrate Tribasic
2	A2		0.1 M Na ₂ HPO ₄ : Citric Acid, pH 4.2	2 M Ammonium Sulfate
3	A3	0.2 M Lithium Sulfate	0.1 M Tris: HCl, pH 7	1 M Sodium Potassium Tartrate
4	A4		0.1 M Imidazole: HCl, pH 8	1 M Ammonium, Phosphate Dibasic
5	A5		0.1 M MES: NaOH, pH 6	1.26 M Ammonium Sulfate
6	A6		0.2 M Na ₂ HPO ₄ /KH ₂ PO ₄ , pH 6.2	2.5 M Sodium Chloride
7	A7	0.2 M Calcium Acetate Hydrate	0.1 M Imidazole: HCl, pH 8	10 % (w/v) PEG 8000
8	A8	0.2 M Sodium Chloride	0.1 M Imidazole: HCl, pH 8	30 % (w/v) PEG 8000
9	A9		0.1 M MES: NaOH, pH 6	1 M Potassium Sodium Tartrate
10	A10		0.1 M Bis-Tris: HCl, pH 5.5	0.5 M Magnesium Formate
11	A11		0.1 M Bis-Tris: HCl, pH 6.5	0.5 M Magnesium Formate
12	A12		0.1 M HEPES: NaOH, pH 7.5	0.3 M Magnesium Formate
13	B1		0.1 M Sodium Acetate: HCl, pH 4.5	2 M Ammonium Sulfate
14	B2			1.8 M Ammonium Citrate Tribasic, pH 7.0
15	B3	0.8 M Potassium Sodium Tartrate	0.1 M Tris: HCl, pH 8.5	0.5 % (w/v) PEG 5000 MME
16	B4		0.1 M Citric Acid: NaOH, pH 3.5	25 % (w/v) PEG 3350
17	B5	0.2 M Ammonium Acetate	0.1 M HEPES: NaOH, pH 7.5	45 % (v/v) MPD
18	B6		0.05 M Bis-Tris: HCl, pH 6.5	45 % (v/v) PPG P400
19	B7	0.005 M Cobalt Chloride, 0.005 M Magnesium Chloride, 0.005 M Cadmium Chloride, 0.005 M Nickel Chloride	0.1 M HEPES: NaOH, pH 7.5	12 % (w/v) PEG 3350
20	B8	0.2 M Sodium Chloride	0.1 M Sodium Cacodylate: HCl, pH 6.5	2 M Ammonium Sulfate
21	B9	0.2 M Calcium Acetate Hydrate	0.1 M Imidazole: HCl, pH 8	20 % (w/v) PEG 1000
22	B10	0.2 M Magnesium Chloride	0.1 M Imidazole: HCl, pH 8	15 % (v/v) Ethanol
23	B11		0.1 M Sodium Acetate: Acetic Acid, pH 4.5	20 % (v/v) 1,4-Butanediol
24	B12		0.1 M HEPES: NaOH, pH 7.5	1.26 M Ammonium Sulfate
25	C1		0.1 M Imidazole: HCl, pH 8	2.5 M Sodium Chloride
26	C2	0.2 M Sodium Chloride	0.1 M Tris: HCl, pH 7	30 % (w/v) PEG 3000
27	C3		0.1 M Sodium Cacodylate: HCl, pH 6.5	40 % (v/v) MPD, 5 % (w/v) PEG 8000
28	C4		0.1 M Na ₂ HPO ₄ /KH ₂ PO ₄ , pH 6.2	25 % (v/v) 1,2-Propanediol, 10 % (v/v) glycerol
29	C5	0.16 M Magnesium Acetate	0.08 M Sodium Cacodylate: HCl, pH 6.5	16 % (w/v) PEG 8000, 10 % (v/v) glycerol
30	C6			0.4 M Potassium Sodium Tartrate
31	C7		0.1 M Bis-Tris Propane: HCl, pH 7	1 M Ammonium Citrate Tribasic, pH 7.0
32	C8		0.1 M Tris: HCl, pH 8.5	3.2 M Sodium Chloride
33	C9		0.1 M Bis-Tris Propane: HCl, pH 7	2 M Sodium Formate
34	C10	0.2 M Ammonium Acetate	0.1 M Bis-Tris: HCl, pH 6.5	45 % (v/v) MPD
35	C11	0.2 M Ammonium Acetate	0.1 M Tris: HCl, pH 8.5	45 % (v/v) MPD
36	C12	0.05 M Zinc Acetate		20 % (w/v) PEG 3350
37	D1	0.2 M Magnesium Chloride	0.1 M Tris: HCl, pH 7	10 % (w/v) PEG 8000
38	D2	0.2 M Zinc Acetate	0.1 M Sodium Cacodylate: HCl, pH 6.5	10 % (v/v) Isopropanol
39	D3	0.2 M Lithium Sulfate	0.1 M Tris: HCl, pH 7	2 M Ammonium Sulfate
40	D4		0.1 M Imidazole: HCl, pH 8	1 M Sodium Citrate
41	D5	0.2 M Sodium Chloride	0.1 M Imidazole: HCl, pH 8	1 M Potassium Sodium Tartrate
42	D6	0.2 M Zinc Acetate	0.1 M MES: NaOH, pH 6	10 % (w/v) PEG 8000
43	D7	0.2 M Lithium Sulfate	0.1 M CHES: NaOH, pH 9.5	1 M Potassium Sodium Tartrate
44	D8		0.1 M Sodium Acetate: HCl, pH 4.6	8 % (w/v) PEG 4000
45	D9			1.6 M Sodium Citrate
46	D10	0.2 M Potassium Citrate Tribasic, pH 8.3		20 % (w/v) PEG 3350
47	D11		0.1 M HEPES: NaOH, pH 7.5	0.8 M NaH ₂ PO ₄ , 0.8 M KH ₂ PO ₄
48	D12		0.1 M Tris: HCl, pH 8.5	20 % (v/v) Ethanol
49	E1	0.2 M Sodium Chloride	0.1 M NaH ₂ PO ₄ /K ₂ HPO ₄ , pH 6.2	50 % (v/v) PEG 200
50	E2	0.02 M Calcium Chloride	0.1 M Sodium Acetate: HCl, pH 4.6	30 % (v/v) MPD
51	E3		0.1 M Tris: HCl, pH 8	40 % (v/v) MPD
52	E4	0.05 M Cesium Chloride	0.1 M MES: NaOH, pH 6.5	30 % (w/v) Jeffamine M-600
53	E5		0.1 M Sodium Citrate: HCl, pH 5	3.15 M Ammonium Sulfate
54	E6		0.1 M Tris: HCl, pH 8	20 % (v/v) MPD
55	E7		0.1 M Imidazole: HCl, pH 6.5	1 M Sodium Acetate
56	E8		0.1 M HEPES: NaOH, pH 7.5	10 % (w/v) PEG 8000, 10 % (v/v) Ethylene Glycol
57	E9		0.09 M HEPES: NaOH, pH 7.5	1.26 M Sodium Citrate, 10 % (v/v) Glycerol
58	E10		0.1 M Bis-Tris Propane: HCl, pH 7	2.5 M Ammonium Sulfate
59	E11		0.1 M Sodium Acetate: HCl, pH 4.6	0.8 M Lithium Sulfate
60	E12		0.1 M HEPES: NaOH, pH 7.5	1.4 M Sodium Citrate
61	F1		0.1 M Citric Acid: NaOH, pH 3.5	2 M Ammonium Sulfate
62	F2		0.1 M Tris: HCl, pH 8.5	0.3 M Magnesium Formate
63	F3	0.2 M Magnesium Chloride	0.1 M Tris: HCl, pH 8.5	50 % (v/v) Ethylene Glycol
64	F4			2.1 M DL-Malic Acid, pH 7.0
65	F5	1 M Ammonium Sulfate	0.1 M HEPES: NaOH, pH 7	0.5 % (w/v) PEG 8000
66	F6			25 % (w/v) PEG 1500
67	F7		0.1 M HEPES: NaOH, pH 7	30 % (v/v) Jeffamine M-600, pH 7.0
68	F8		0.1 M HEPES: NaOH, pH 7	5 % (v/v) Microlytic Mix ⁽¹⁾ , pH 7.0, 10 % (w/v) PEG 5000 MME
69	F9		0.1 M Imidazole: HCl, pH 8	10 % (w/v) PEG 8000
70	F10	0.2 M Magnesium Chloride	0.1 M HEPES: NaOH, pH 7.5	15 % (v/v) Ethanol
71	F11		0.1 M Tris: HCl, pH 8.5	20 % (w/v) PEG 1000
72	F12	0.2 M Sodium Chloride	0.1 M HEPES: NaOH, pH 7.5	30 % (v/v) PEG 400
73	G1	0.2 M Magnesium Chloride	0.1 M Imidazole: HCl, pH 8	35 % (v/v) MPD
74	G2		0.1 M Na ₂ HPO ₄ : Citric Acid, pH 4.2	40 % (v/v) Ethanol, 5 % (w/v) PEG 1000
75	G3	0.2 M Magnesium Chloride	0.1 M Sodium Cacodylate: HCl, pH 6.5	50 % (v/v) PEG 200
76	G4			10 % (w/v) PEG 1000, 10 % (w/v) PEG 8000
77	G5		0.1 M HEPES: NaOH, pH 7.5	70 % (v/v) MPD
78	G6	0.17 M Ammonium Sulfate		25.5 % (w/v) PEG 4000, 15 % (v/v) Glycerol
79	G7		0.1 M BICINE: NaOH, pH 9	10 % (w/v) PEG 6000
80	G8		0.1 M BICINE: NaOH, pH 9	10 % (v/v) MPD
81	G9	0.2 M Sodium Chloride	0.1 M Sodium Citrate: Citric Acid, pH 5.5	40 % (v/v) 1,2-Propanediol
82	G10		0.1 M Bis-Tris Propane: HCl, pH 7	1.5 M Ammonium Chloride
83	G11		0.1 M Tris: HCl, pH 8.5	0.4 M Magnesium Formate
84	G12		0.1 M Sodium Acetate: HCl, pH 4.6	2 M Sodium Formate
85	H1	0.2 M Proline	0.1 M HEPES: NaOH, pH 7.5	10 % (w/v) PEG 3350
86	H2		0.1 M Sodium Acetate: HCl, pH 4.5	3 M Sodium Chloride
87	H3	0.2 M Sodium Chloride	0.1 M HEPES: NaOH, pH 7.5	10 % (v/v) Isopropanol
88	H4	0.2 M Zinc Acetate	0.1 M Imidazole: HCl, pH 8	20 % (w/v) PEG 3000
89	H5	0.2 M Sodium Chloride	0.1 M Tris: HCl, pH 7	1 M Sodium Citrate
90	H6	0.2 M Zinc Acetate	0.1 M Imidazole: HCl, pH 8	20 % (v/v) 1,4-Butanediol
91	H7	0.2 M Sodium Chloride	0.1 M HEPES: NaOH, pH 7.5	20 % (v/v) 1,4-Butanediol
92	H8		0.1 M CHES: NaOH, pH 9.5	30 % (v/v) PEG 400
93	H9		0.1 M Tris: HCl, pH 8.5	1 M Ammonium, Phosphate Dibasic
94	H10	0.2 M Lithium Sulfate	0.1 M Sodium Acetate: Acetic Acid, pH 4.5	2.5 M Sodium Chloride
95	H11		0.1 M Bis-Tris Propane: HCl, pH 7	0.7 M Sodium Citrate
96	H12	0.5 M Potassium Thiocyanate	0.1 M Sodium Acetate: HCl, pH 4.6	

⁽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.