

Supplemental material

Table 1. Successful conditions for crystallization of bR *in meso*.

Kit ^a	Screen #	Composition	Crystal type ^b	First observed ^c
CS	F2	2.0 M Ammonium Sulfate, 0.1 M Na Citrate pH 5.6, 0.2 M K/Na Tartrate	P	1
CS	D3	2% PEG 400, 0.1 M Na Hepes pH 7.5, 2.0 M Ammonium Sulfate	P	6
CS	A4	2.0 M Ammonium Sulfate, 0.1 M Tris HCl pH 8.5	P	1
CS	D11	2.0 M Ammonium Sulfate, 0.1 M Sodium Acetate pH 4.6	P	1
Index	A1	0.1 M Citric Acid pH 3.5, 2.0 M Ammonium Sulfate	S	1
Index	A2	0.1 M Na Acetate pH 4.5, 2.0 M Ammonium Sulfate	P	1
Index	G2	0.2 M Li Sulfate, 0.1 M Bis-Tris pH 5.5, 25% w/v PEG 3350	P	1
Index	A3	0.1 M Bis-Tris pH 5.5, 2.0 M Ammonium Sulfate	P	1
Index	A4	0.1 M Bis-Tris pH 6.5, 2.0 M Ammonium Sulfate	P	1
Index	A5	0.1 M HEPES pH 7.5, 2.0 M Ammonium Sulfate	P	1
Index	A6	0.1 M Tris pH 8.5, 2.0 M Ammonium Sulfate	P	1
Index	C6	0.1 M Sodium Chloride, 0.1 M Bis-Tris pH 6.5, 1.5 M Ammonium Sulfate	P	6
Index	D6	0.1 M Bis-Tris pH 5.5, 25% w/v PEG 3350	P	24
Index	B9	1.8 M tri-Ammonium Citrate pH 7.0	P	3
Wizard	E4	2.0 M Ammonium Sulfate, 0.1 M Cacodylate pH 6.5, 0.2 M NaCl, final pH 6.3	P	6
Wizard	F7	1.6 M NaH ₂ PO ₄ /0.4 M K ₂ HPO ₄ , 0.1 M Phosphate-citrate pH 4.2, final pH 5.2	P	11
Wizard	A8	2.0 M Ammonium Sulfate, 0.1 M Citrate pH 5.5, final pH 5.3	P	1
Wizard	B8	0.4 M NaH ₂ PO ₄ /1.6 M K ₂ HPO ₄ , 0.1 M Imidazole pH 8.0, 0.2 M NaCl, final pH 7.6	S	1
Wizard	C9	2.0 M Ammonium Sulfate, 0.1 M CAPS pH 10.5, 0.2 M Li ₂ SO ₄ , final pH 8.2	P	1
Wizard	E9	2.0 M Ammonium Sulfate, 0.1 M Phosphate-citrate pH 4.2, final pH 4.1	P	1
Wizard	G11	0.8 M NaH ₂ PO ₄ /1.2 M K ₂ HPO ₄ , 0.1 M Acetate pH 4.5, final pH 6.7	S	1
SaltRx	F2	1.5M Ammonium Sulfate, 0.1M Bis-Tris Propane pH 7.0	P	10
SaltRx	F3	1.5M Ammonium Sulfate, 0.1M Tris pH 8.5	P	10
SaltRx	E4	2.4 M di-Ammonium hydrogen Phosphate, 0.1M Tris pH 8.5	S	3
SaltRx	F4	2.5M Ammonium Sulfate, 0.1M Sodium Acetate pH 4.6	P	1
SaltRx	F5	2.5M Ammonium Sulfate, 0.1M Bis Tris Propane pH 7.0	P	1
SaltRx	B6	2.0M tri-Sodium Citrate dihydrate, 0.1M Bis-Tris Propane pH 7.0	S	6
SaltRx	F6	2.5 M Ammonium Sulfate, 0.1M Tris pH 8.5	P	6
SaltRx	E9	1.8M Sodium/Potassium Phosphate pH 6.9	S	3
SaltRx	F10	1.5M Lithium Sulfate, 0.1M Sodium Acetate pH 4.6	P	3
JBS-6	A6	1.2 M Ammonium Sulfate, 3% iso-Propanol, 0.05 M Na Citrate	S	11
JBS-6	B3	1.6 M Ammonium Sulfate, 1.0 M Li Sulfate	S	6
JBS-6	C2	2.0 M Ammonium Sulfate, 0.1 M Na Acetate pH 4.6	P	1
JBS-6	C5	2.2 M Ammonium Sulfate	P	1
JBS-6	C6	2.2 M Ammonium Sulfate, 20% Glycerol	P	6
JBS-6	D1	2.4 M Ammonium Sulfate, 0.1 M Na Citrate	P	1
JBS-6	D2	3.0 M Ammonium Sulfate, 1% MPD	P	11
JBS6	D3	3.0 M Ammonium Sulfate, 10% Glycerol	P	6

Table 2. Successful conditions for crystallization of lysozyme *in meso*

Kit ^a	Screen #	Composition	Crystal type ^b	First observed ^c
CS	C5	0.8 M K, Na Tartrate, 0.1 M Na Hepes pH 7.5	3D	1
CS	E8	10% Ethanol, 1.5 M Sodium Chloride	P	1
CS	E9	2.0 M Sodium Chloride, 0.1 M Na Acetate pH 4.6	N	6
Index	D4	0.1 M Citric Acid pH 3.5, 25% w/v PEG 3350	3D	32
Index	A7	0.1 M Citric Acid pH 3.5, 3.0 M Sodium Chloride	3D	1
Index	C9	1.1 M Na Malonate pH 7.0, 0.1 M HEPES pH 7.0, 0.5% v/v Jeffamine ED-2001 pH 7.0	3D	6
Index	B10	0.8 M Succinic Acid pH 7.0	3D	13
Index	B11	2.1 M DL-Malic Acid pH 7.0	3D	6
Index	F12	0.2 M Na Chloride, 0.1 M HEPES pH 7.5, 25% w/v PEG 3350	3D	1
Index	G12	0.2 M Mg Chloride, 0.1 M HEPES pH 7.5, 25% w/v PEG 3350	3D	6
Wizard	H2	2.5 M NaCl, 0.1 M Acetate pH 4.5, 0.2 M Li ₂ SO ₄ , final pH 4.2	N	6
Wizard	H6	30% (v/v) PEG-400, 0.1 M HEPES pH 7.5, 0.2 M NaCl, final pH 7.4	3D	1
Wizard	F8	15% (v/v) ethanol, 0.1 M MES pH 6.0, 0.2 M Zn(OAc) ₂ , final pH 6	N	13
Wizard	B9	20% (w/v) PEG-8000, 0.1 M HEPES pH 7.5, final pH 7.5	3D	13
SaltRx	D1	2.5M Ammonium Nitrate, 0.1M Sodium Acetate pH 4.6	N	1
SaltRx	D2	2.5M Ammonium Nitrate, 0.1M Bis-Tris Propane pH 7.0	N	1
SaltRx	D3	2.5 M Ammonium Nitrate, 0.1M Tris pH 8.5	N	1
SaltRx	D4	6.0M Ammonium Nitrate, 0.1M Sodium Acetate pH 4.6	N	6
SaltRx	D5	6.0M Ammonium Nitrate, 0.1M Bis-Tris Propane pH 7.0	N	19
SaltRx	H5	0.5M Potassium Thiocyanate, 0.1M Sodium Acetate pH 4.6	3D	6
SaltRx	D6	6.0 M Ammonium Nitrate, 0.1M Tris pH 8.5	N	13
SaltRx	A7	3.5M Ammonium Chloride, 0.1M Bis-Tris Propane pH 7.0	N	2
SaltRx	C7	3.5M Sodium Formate, 0.1M Bis-Tris Propane pH 7.0	3D	6
SaltRx	A8	3.5M Ammonium Chloride, 0.1M Tris pH 8.5	N, P	1
SaltRx	A9	2.2M Sodium Chloride, 0.1M Sodium Acetate pH 4.6	N, P	19
SaltRx	C10	1.4M Tri-Sodium Citrate dihydrate, 0.1M Tris pH 8.5	3D	19
SaltRx	A12	3.2M Sodium Chloride, 0.1M Sodium Acetate pH 4.6	N, P	13
JBS-6	C1	2.0 M Ammonium Sulfate, 2 M Na Chloride	N	6

^a Abbreviations for commercial screen kits:

- CS Crystal Screen HT (Hampton Research, Aliso Viejo, CA)
 Index Index HT (Hampton Research, Aliso Viejo, CA)
 Wizard Wizard I and II (deCODE Biostructures group, Bainbridge Island, WA)
 SaltRx SaltRx HT (Hampton Research, Aliso Viejo, CA)
 JBS JBScreen (Jena Bioscience, Jena, Germany)

^b Abbreviations for crystal types:

- S submicrocrystals (visible as birefringent dots under cross-polarizers)
 N needle-like crystals
 P plate-like crystals
 3D three-dimensional crystals

^c Day on which the crystals were observed for the first time is indicated