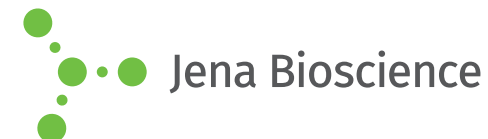




XP Screen

Crystallization Screen for improved Crystal Quality and Phasing
Cat.-No.: CS-350

SCREEN FORMULATION



No.	Precipitant 1	Precipitant 2	Buffer	Additive 1	Additive 2
A1	25 % v/v Ethylene glycol	none	none		1 mM TEW
A2	1.5 M Ammonium sulfate	12 % v/v Glycerol	100 mM TRIS; pH 8.5		1 mM TEW
A3	100 mM 1,6-Hexanediol	none	100 mM Sodium acetate; pH 4.6	5 mM Cobalt (II) chloride	1 mM TEW
A4	2.5 M 1,6-Hexanediol	none	100 mM tri-Sodium citrate; pH 5.6		1 mM TEW
A5	1 M 1,6-Hexanediol	none	100 mM HEPES; pH 7.5	10 mM Magnesium chloride	1 mM TEW
A6	30 % v/v 2-Methyl-2,4-pentanediol	none	100 mM Sodium acetate; pH 4.6	10 mM Sodium chloride	1 mM TEW
A7	30 % v/v 2-Methyl-2,4-pentanediol	none	100 mM tri-Sodium citrate; pH 5.6	200 mM Ammonium acetate	1 mM TEW
A8	10 % v/v 2-Methyl-2,4-pentanediol	none	100 mM Sodium acetate; pH 4.6	5 mM Calcium chloride	1 mM TEW
A9	500 mM Ammonium sulfate	30 % v/v 2-Methyl-2,4-pentanediol	100 mM HEPES; pH 7.5		1 mM TEW
A10	30 % v/v 2-Methyl-2,4-pentanediol	none	100 mM HEPES; pH 7.5	200 mM tri-Sodium citrate	1 mM TEW
A11	50 % v/v 2-Methyl-2,4-pentanediol	none	100 mM TRIS; pH 8.5	200 mM Ammonium di-hydrogen phosphate	1 mM TEW
A12	50 % v/v 2-Methyl-2,4-pentanediol	none	100 mM HEPES; pH 7.5		1 mM TEW
B1	2 % v/v Polyethylene glycol 400	none	100 mM tri-Sodium citrate; pH 5.6	500 mM Sodium chloride	1 mM TEW
B2	2 M Ammonium sulfate	2 % v/v Polyethylene glycol 400	100 mM HEPES; pH 7.5		1 mM TEW
B3	10 % v/v Polyethylene glycol 400	none	100 mM HEPES; pH 7.5	10 mM Calcium chloride	1 mM TEW
B4	30 % v/v Polyethylene glycol 400	none	100 mM tri-Sodium citrate; pH 5.6		1 mM TEW
B5	30 % v/v Polyethylene glycol 400	none	100 mM HEPES; pH 7.5	200 mM Magnesium chloride	1 mM TEW
B6	10 % v/v Polyethylene glycol 400	none	100 mM Sodium acetate; pH 4.6	10 mM Calcium chloride	1 mM TEW
B7	20 % v/v Polyethylene glycol monomethyl ether 550	none	100 mM HEPES; pH 7.5	100 mM Sodium chloride	1 mM TEW
B8	25 % v/v Polyethylene glycol monomethyl ether 550	none	100 mM MES; pH 6.5		1 mM TEW
B9	10 % w/v Polyethylene glycol 8,000	10 % w/v Polyethylene glycol 1,000	100 mM tri-Sodium citrate; pH 5.6		1 mM TEW
B10	30 % w/v Polyethylene glycol 1,500	none	100 mM HEPES; pH 7.5		1 mM TEW
B11	5 % w/v Polyethylene glycol monomethyl ether 2,000	none	100 mM TRIS; pH 8.5		1 mM TEW
B12	20 % w/v Polyethylene glycol monomethyl ether 2,000	none	none		1 mM TEW

*pH values indicated are those of the 1.0 M buffer stock solution prior to dilution with other components



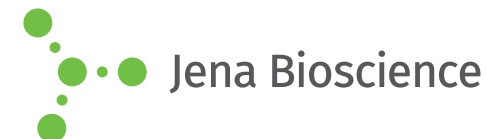


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No.	Precipitant 1	Precipitant 2	Buffer	Additive 1	Additive 2
C1	30 % w/v Polyethylene glycol monomethyl ether 2,000	none	100 mM Sodium acetate; pH 4.6	10 mM Ammonium sulfate	1 mM TEW
C2	8 % w/v Polyethylene glycol 4,000	none	100 mM Sodium acetate; pH 4.6		1 mM TEW
C3	5 % v/v 2-Propanol	10 % w/v Polyethylene glycol 4,000	100 mM tri-Sodium citrate; pH 5.6		1 mM TEW
C4	10 % v/v 2-Propanol	20 % w/v Polyethylene glycol 4,000	100 mM HEPES; pH 7.5		1 mM TEW
C5	10 % w/v Polyethylene glycol 4,000	none	100 mM Sodium acetate; pH 4.6	10 mM Ammonium sulfate	1 mM TEW
C6	30 % w/v Polyethylene glycol 4,000	none	none	200 mM Ammonium sulfate	1 mM TEW
C7	15 % w/v Polyethylene glycol 4,000	none	100 mM Sodium acetate; pH 4.6	10 mM Ammonium acetate	1 mM TEW
C8	30 % w/v Polyethylene glycol 4,000	none	100 mM tri-Sodium citrate; pH 5.6	200 mM Ammonium acetate	1 mM TEW
C9	30 % w/v Polyethylene glycol 4,000	none	100 mM TRIS; pH 8.5	200 mM Sodium acetate	1 mM TEW
C10	30 % w/v Polyethylene glycol 4,000	none	100 mM TRIS; pH 8.5	200 mM Lithium sulfate	1 mM TEW
C11	30 % w/v Polyethylene glycol 4,000	none	100 mM TRIS; pH 8.5	10 mM Magnesium chloride	1 mM TEW
C12	10 % w/v Polyethylene glycol monomethyl ether 5,000	none	100 mM MES; pH 6.5	10 mM Ammonium sulfate	1 mM TEW
D1	10 % w/v Polyethylene glycol 6,000	none	100 mM tri-Sodium citrate; pH 5.6	100 mM Sodium chloride	1 mM TEW
D2	5 % v/v 2-Methyl-2,4-pentanediol	10 % w/v Polyethylene glycol 6,000	100 mM HEPES; pH 7.5		1 mM TEW
D3	8 % w/v Polyethylene glycol 8,000	none	100 mM TRIS; pH 8.5		1 mM TEW
D4	8 % v/v Ethylene glycol	10 % w/v Polyethylene glycol 8,000	100 mM HEPES; pH 7.5		1 mM TEW
D5	500 mM Lithium sulfate	15 % w/v Polyethylene glycol 8,000	100 mM Sodium acetate; pH 4.6		1 mM TEW
D6	10 % w/v Polyethylene glycol 8,000	none	100 mM MES; pH 6.5	10 mM Calcium acetate	1 mM TEW
D7	18 % w/v Polyethylene glycol 8,000	none	100 mM MES; pH 6.5		1 mM TEW
D8	10 % w/v Polyethylene glycol 8,000	none	none	10 mM Potassium di-hydrogen phosphate	1 mM TEW
D9	20 % w/v Polyethylene glycol 8,000	none	100 mM MES; pH 6.5	200 mM Magnesium acetate	1 mM TEW
D10	10 % w/v Polyethylene glycol 8,000	none	100 mM MES; pH 6.5	5 mM Sodium acetate	1 mM TEW
D11	30 % w/v Polyethylene glycol 8,000	none	none	200 mM Ammonium sulfate	1 mM TEW
D12	10 % w/v Polyethylene glycol 8,000	none	100 mM MES; pH 6.5	5 mM Ammonium sulfate	1 mM TEW

*pH values indicated are those of the 1.0 M buffer stock solution prior to dilution with other components

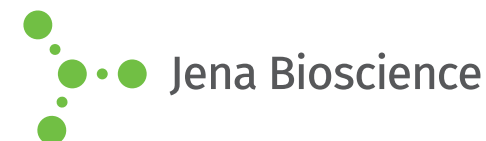




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No.	Precipitant 1	Precipitant 2	Buffer	Additive 1	Additive 2
E1	2 % v/v 1,4-Dioxane	10 % w/v Polyethylene glycol 10,000	100 mM tri-Sodium citrate; pH 5.6		1 mM TEW
E2	20 % w/v Polyethylene glycol 10,000	none	100 mM HEPES; pH 7.5		1 mM TEW
E3	12 % w/v Polyethylene glycol 20,000	none	100 mM MES; pH 6.5		1 mM TEW
E4	2 M Ammonium sulfate	5 % v/v 2-Propanol	none		1 mM TEW
E5	20 % v/v 2-Propanol	none	100 mM HEPES; pH 7.5	200 mM tri-Sodium citrate	1 mM TEW
E6	20 % v/v 2-Propanol	none	100 mM Sodium acetate; pH 4.6		1 mM TEW
E7	30 % v/v 2-Propanol	none	100 mM HEPES; pH 7.5	200 mM Magnesium chloride	1 mM TEW
E8	10 % v/v 2-Propanol	none	100 mM TRIS; pH 8.5	10 mM Ammonium acetate	1 mM TEW
E9	1.6 M Ammonium sulfate	10 % v/v 1,4-Dioxane	100 mM MES; pH 6.5		1 mM TEW
E10	35 % v/v 1,4-Dioxane	none	none		1 mM TEW
E11	10 % v/v Ethanol	none	none	100 mM Sodium chloride	1 mM TEW
E12	20 % v/v Ethanol	none	100 mM TRIS; pH 8.5		1 mM TEW
F1	25 % v/v 2-Methyl-2-propanol	none	100 mM TRIS; pH 8.5		1 mM TEW
F2	10 % v/v 2-Methyl-2-propanol	none	100 mM HEPES; pH 7.5		1 mM TEW
F3	1 M Imidazole; pH 7.0	none	none		1 mM TEW
F4	100 mM Lithium sulfate	none	100 mM TRIS; pH 8.5		1 mM TEW
F5	1.5 M Lithium sulfate	none	100 mM HEPES; pH 7.5		1 mM TEW
F6	400 mM Potassium Sodium tartrate	none	none		1 mM TEW
F7	400 mM Potassium Sodium tartrate	none	100 mM HEPES; pH 7.5		1 mM TEW
F8	1.4 M tri-Sodium citrate	none	100 mM HEPES; pH 7.5		1 mM TEW
F9	1.6 M tri-Sodium citrate; pH 6.5	none	none		1 mM TEW
F10	10 % v/v Jeffamine® M-600; pH 7.0	none	100 mM tri-Sodium citrate; pH 5.6	10 mM Iron (III) chloride	1 mM TEW
F11	20 % v/v Jeffamine® M-600; pH 7.0	none	100 mM HEPES; pH 7.5		1 mM TEW
F12	20 % v/v Jeffamine® M-600; pH 7.0	none	100 mM MES; pH 6.5	10 mM Cesium chloride	1 mM TEW

*pH values indicated are those of the 1.0 M buffer stock solution prior to dilution with other components





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No.	Precipitant 1	Precipitant 2	Buffer	Additive 1	Additive 2
G1	100 mM Potassium di-hydrogen phosphate	100 mM Sodium di-hydrogen phosphate	100 mM tri-Sodium citrate; pH 5.6		1 mM TEW
G2	400 mM Ammonium di-hydrogen phosphate	none	none		1 mM TEW
G3	1 M Ammonium di-hydrogen phosphate	none	100 mM tri-Sodium citrate; pH 5.6		1 mM TEW
G4	2 M Ammonium di-hydrogen phosphate	none	100 mM TRIS; pH 8.5		1 mM TEW
G5	2 M Ammonium formate	none	100 mM Sodium acetate; pH 4.6		1 mM TEW
G6	4 M Ammonium formate	none	100 mM HEPES; pH 7.5		1 mM TEW
G7	2 M Ammonium formate	none	none		1 mM TEW
G8	1 M Lithium sulfate	500 mM Ammonium sulfate	100 mM tri-Sodium citrate; pH 5.6		1 mM TEW
G9	1.6 M Ammonium sulfate	none	100 mM HEPES; pH 7.5	100 mM Sodium chloride	1 mM TEW
G10	1.8 M Ammonium sulfate	none	100 mM MES; pH 6.5	10 mM Cobalt (II) chloride	1 mM TEW
G11	2 M Ammonium sulfate	none	100 mM TRIS; pH 8.5		1 mM TEW
G12	2 M Ammonium sulfate	none	none		1 mM TEW
H1	2 M Ammonium sulfate	none	100 mM Sodium acetate; pH 4.6		1 mM TEW
H2	2 M Ammonium sulfate	none	100 mM tri-Sodium citrate; pH 5.6	200 mM Potassium Sodium tartrate	1 mM TEW
H3	200 mM Magnesium formate	none	none		1 mM TEW
H4	1.6 M Magnesium sulfate	none	100 mM MES; pH 6.5		1 mM TEW
H5	2 M Magnesium chloride	none	100 mM BICINE; pH 9.5		1 mM TEW
H6	1 M Sodium acetate	none	100 mM Imidazole; pH 6.5		1 mM TEW
H7	100 mM Sodium acetate	none	100 mM tri-Sodium citrate; pH 5.6	5 mM Cadmium sulfate	1 mM TEW
H8	1.4 M Sodium acetate	none	100 mM MES; pH 6.5		1 mM TEW
H9	100 mM Sodium chloride	none	none	10 mM Magnesium chloride	1 mM TEW
H10	2 M Sodium chloride	none	100 mM Sodium acetate; pH 4.6		1 mM TEW
H11	2 M Sodium chloride	none	100 mM MES; pH 6.5	100 mM Sodium di-hydrogen phosphate, 100 mM Potassium di-hydrogen phosphate	1 mM TEW
H12	4.3 M Sodium chloride	none	100 mM HEPES; pH 7.5		1 mM TEW

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