Crystal Screen Cryo HT Formulation

Well #		Salt		Buffer	pH		Precipitant 1		Precipitant 2		Cryoprotectant	Avg. pH
A1	0.02 M	Calcium chloride dihydrate	0.1 M	Sodium acetate trihydrate	4.6	30 % v/v	(+/-)-2-Methyl-2,4-pentanediol					5.1
A2						0.26 M	Potassium sodium tartate tetrahydrate				35 % v/v Glycerol	7.6
A3						0.26 M	Ammonium phosphate monobasic				35 % v/v Glycerol	4.3
A4			0.075 M	TRIS hydrochloride	8.5	1.5 M	Ammonium sulfate				25 % v/v Glycerol	8.0
A5	0.2 M	Sodium citrate tribasic dihydrate	0.1 M	HEPES sodium	7.5	30 % v/v	(+/-)-2-Methyl-2,4-pentanediol					7.4
A6	0.16 M	Magnesium chloride hexahydrate	0.08 M	TRIS hydrochloride	8.5	24 % w/v	Polyethylene glycol 4,000				20 % v/v Glycerol	8.5
A7			0.07 M	Sodium cacodylate trihydrate	6.5	0.98 M	Sodium acetate trihydrate				30 % v/v Glycerol	6.8
A8	0.14 M	Sodium citrate tribasic dihydrate	0.07 M	Sodium cacodylate trihydrate	6.5	21 % v/v	2-Propanol				30 % v/v Glycerol	7.0
A9	0.17 M	Ammonium acetate	0.085 M	Sodium citrate tribasic dihydrate	5.6	25.5 % w/v	Polyethylene glycol 4,000				15 % v/v Glycerol	6.5
A10	0.17 M	Ammonium acetate	0.085 M	Sodium acetate trihydrate	4.6	25.5 % w/v	Polyethylene glycol 4,000				15 % v/v Glycerol	5.8
A11			0.07 M	Sodium citrate tribasic dihydrate	5.6	0.7 M	Ammonium phosphate monobasic				30 % v/v Glycerol	4.9
A12	0.18 M	Magnesium chloride hexahydrate	0.09 M	HEPES sodium	7.5	27 % v/v	2-Propanol				10 % v/v Glycerol	7.2
B1	0.2 M	Sodium citrate tribasic dihydrate	0.1 M	TRIS hydrochloride	8.5	30 % v/v	Polyethylene glycol 400					8.8
B2	0.19 M	Calcium chloride dihydrate	0.095 M	HEPES sodium	7.5	26.6 % v/v	Polyethylene glycol 400				5 % v/v Glycerol	7.2
B3	0.17 M	Ammonium sulfate	0.085 M	Sodium cacodylate trihydrate	6.5	25.5 % w/v	Polyethylene glycol 8,000				15 % v/v Glycerol	6.6
B4			0.075 M	HEPES sodium	7.5	1.125 M	Lithium sulfate monohydrate				25 % v/v Glycerol	7.5
B5	0.17 M	Lithium sulfate monohydrate	0.085 M	TRIS hydrochloride	8.5	25.5 % w/v	Polyethylene glycol 4,000				15 % v/v Glycerol	8.6
B6	0.16 M	Magnesium acetate tetrahydrate	0.08 M	Sodium cacodylate trihydrate	6.5	16 % w/v	Polyethylene glycol 8,000				20 % v/v Glycerol	6.5
B7	0.16 M	Ammonium acetate	0.08 M	TRIS hydrochloride	8.5	24 % v/v	2-Propanol				20 % v/v Glycerol	8.2
B8	0.16 M	Ammonium sulfate	0.08 M	Sodium acetate trihydrate	4.6	20 % w/v	Polyethylene glycol 4,000				20 % v/v Glycerol	4.9
B9	0.2 M	Magnesium acetate tetrahydrate	0.1 M	Sodium cacodylate trihydrate	6.5	30 % v/v	(+/-)-2-Methyl-2,4-pentanediol					6.7
B10	0.17 M	Sodium acetate trihydrate	0.085 M	TRIS hydrochloride	8.5	25.5 % w/v	Polyethylene glycol 4,000				15 % v/v Glycerol	8.6
B11	0.2 M	Magnesium chloride hexahydrate	0.1 M	HEPES sodium	7.5	30 % v/v	Polyethylene glycol 400					7.2
B12	0.14 M	Calcium chloride dihydrate	0.07 M	Sodium acetate trihydrate	4.6	14 % v/v	2-Propanol				30 % v/v Glycerol	4.7
C1			0.07 M	Imidazole	6.5	0.7 M	Sodium acetate trihydrate				30 % v/v Glycerol	6.8
C2	0.2 M	Ammonium acetate	0.1 M	Sodium citrate tribasic dihydrate	5.6	30 % v/v	(+/-)-2-Methyl-2,4-pentanediol					6.4
C3	0.14 M	Sodium citrate tribasic dihydrate	0.07 M	HEPES sodium	7.5	14 % v/v	2-Propanol				30 % v/v Glycerol	7.4
C4	0.17 M	Sodium acetate trihydrate	0.085 M	Sodium cacodylate trihydrate	6.5	25.5 % w/v	Polyethylene glycol 8,000				15 % v/v Glycerol	6.9
C5			0.065 M	HEPES sodium	7.5	0.52 M	Potassium sodium tartate tetrahydrate				35 % v/v Glycerol	7.5
C6	0.17 M	Ammonium sulfate				25.5 % w/v	Polyethylene glycol 8,000				15 % v/v Glycerol	5.6
C7	0.17 M	Ammonium sulfate				25.5 % w/v	Polyethylene glycol 4,000				15 % v/v Glycerol	5.6
C8						1.5 M	Ammonium sulfate				25 % v/v Glycerol	5.2
C9						3.6 M	Sodium formate				10 % v/v Glycerol	8.3
C10			0.07 M	Sodium acetate trihydrate	4.6	1.4 M	Sodium formate				30 % v/v Glycerol	5.5
C11			0.075 M	HEPES sodium	7.5	0.6 M	Sodium phosphate monobasic monohydrate	0.6 M	Potassium phosphate monobasic		25 % v/v Glycerol	4.7
C12			0.065 M	TRIS hydrochloride	8.5	5.2 % w/v	Polyethylene glycol 8,000				35 % v/v Glycerol	8.4
D1			0.07 M	Sodium acetate trihydrate	4.6	5.6 % w/v	Polyethylene glycol 4,000				30 % v/v Glycerol	4.9
D2			0.09 M	HEPES sodium	7.5	1.26 M	Sodium citrate tribasic dihydrate				10 % v/v Glycerol	7.8
D3			0.085 M	HEPES sodium	7.5	1.7 % v/v	Polyethylene glycol 400	1.7 M	Ammonium sulfate		15 % v/v Glycerol	7.4
D4			0.095 M	Sodium citrate tribasic dihydrate	5.6	19 % v/v	2-Propanol	19 % w/v	Polyethylene glycol 4,000	5 % v/v	Glycerol	6.5
D5			0.085 M	HEPES sodium	7.5	8.5 % v/v	2-Propanol	17 % w/v	Polyethylene glycol 4,000	15 % v/v	Glycerol	7.3

D6	0.04	M	Potassium phosphate monobasic				16	% w/v	Polyethylene glycol 8,000			20	% v/v	Glycerol	5.0
D7							24	% w/v	Polyethylene glycol 1,500			20	% v/v	Glycerol	6.8
D8							0.1	M	Magnesium formate dihydrate			50	% v/v	Glycerol	7.1
D9	0.16	M	Zinc acetate dihydrate	0.08	M	Sodium cacodylate trihydrate	14.4	% w/v	Polyethylene glycol 8,000			20	% v/v	Glycerol	5.9
D10	0.16	M	Calcium acetate hydrate	0.08	M	Sodium cacodylate trihydrate	14.4	% w/v	Polyethylene glycol 8,000			20	% v/v	Glycerol	6.6
D11				0.08	M	Sodium acetate trihydrate	1.6	M	Ammonium sulfate			20	% v/v	Glycerol	4.6
D12				0.08	M	TRIS hydrochloride	1.6	M	Ammonium phosphate monobasic			20	% v/v	Glycerol	4.3
E1	1.6	M	Sodium chloride				8	% w/v	Polyethylene glycol 6,000			20	% v/v	Glycerol	5.3
E2	0.3	M	Sodium chloride				0.006	M	Hexadecyltrimethylammonium bromide			40	% v/v	Glycerol	5.3
	0.006	M	Magnesium chloride hexahydrate												
E3							21.25	% v/v	Ethylene glycol			15	% v/v	Glycerol	5.8
E4							26.25	% v/v	1,4-Dioxane			25	% v/v	Glycerol	4.9
E5	1.5	M	Ammonium sulfate				3.75	% v/v	2-Propanol			25	% v/v	Glycerol	5.2
E6							0.65	M	Imidazole pH 7.0			35	% v/v	Glycerol	7.0
E7							8	% w/v	Polyethylene glycol 1,000	8	% w/v Polyethylene glycol 8,000	20	% v/v	Glycerol	6.1
E8	1.05	M	Sodium chloride				7	% v/v	Ethanol			30	% v/v	Glycerol	5.6
E9				0.075	M	Sodium acetate trihydrate	1.5	M	Sodium chloride			25	% v/v	Glycerol	4.5
E10	0.2	M	Sodium chloride	0.1	M	Sodium acetate trihydrate	30	% v/v	(+/-)-2-Methyl-2,4-pentanediol						5.0
E11	0.008	M	Cobalt(II) chloride hexahydrate	0.08	M	Sodium acetate trihydrate	0.8	M	1,6-Hexanediol			20	% v/v	Glycerol	4.8
E12	0.095	M	Cadmium chloride hydrate	0.095	M	Sodium acetate trihydrate	28.5	% v/v	Polyethylene glycol 400			5	% v/v	Glycerol	4.9
F1	0.18	M	Ammonium sulfate	0.09	M	Sodium acetate trihydrate	27	% w/v	Polyethylene glycol monomethyl ether 2,000			10	% v/v	Glycerol	5.0
F2	0.15	M	Potassium sodium tartrate tetrahydrate	0.075	M	Sodium citrate tribasic dihydrate	1.5	M	Ammonium sulfate			25	% v/v	Glycerol	5.7
F3	0.375	M	Ammonium sulfate	0.075	M	Sodium citrate tribasic dihydrate	0.75	M	Lithium sulfate monohydrate			25	% v/v	Glycerol	5.3
F4	0.3	M	Sodium chloride	0.06	M	Sodium citrate tribasic dihydrate	1.2	% v/v	Ethylene imine polymer			40	% v/v	Glycerol	5.6
F5				0.08	M	Sodium citrate tribasic dihydrate	28	% v/v	tert-Butanol			20	% v/v	Glycerol	6.4
F6	0.007	M	Iron(III) chloride hexahydrate	0.07	M	Sodium citrate tribasic dihydrate	7	% v/v	Jeffamine M-600			30	% v/v	Glycerol	5.6
F7				0.095	M	Sodium citrate tribasic dihydrate	2.375	M	1,6-Hexanediol			5	% v/v	Glycerol	6.3
F8				0.08	M	MES monohydrate	1.28	M	Magnesium sulfate heptahydrate			20	% v/v	Glycerol	6.5
F9	0.075	M	Sodium phosphate monobasic monohydrate	0.075	M	MES monohydrate	1.5	M	Sodium chloride			25	% v/v	Glycerol	5.5
	0.075	M	Potassium phosphate monobasic												
F10				0.065	M	MES monohydrate	7.8	% w/v	Polyethylene glycol 20,000			35	% v/v	Glycerol	6.5
F11	1.2	M	Ammonium sulfate	0.075	M	MES monohydrate	7.5	% v/v	1,4-Dioxane			25	% v/v	Glycerol	6.6
F12	0.05	M	Cesium chloride	0.1	M	MES monohydrate	30	% v/v	Jeffamine M-600						6.5
G1	0.0075	M	Cobalt(II) chloride hexahydrate	0.075	M	MES monohydrate	1.35	M	Ammonium sulfate			25	% v/v	Glycerol	6.6
G2	0.18	M	Ammonium sulfate	0.09	M	MES monohydrate	27	% w/v	Polyethylene glycol monomethyl ether 5,000			10	% v/v	Glycerol	6.3
G3	0.009	M	Zinc sulfate heptahydrate	0.09	M	MES monohydrate	22.5	% v/v	Polyethylene glycol monomethyl ether 550			10	% v/v	Glycerol	6.5
G4							1.6	M	Sodium citrate tribasic dihydrate pH 6.5						6.5
G5	0.5	M	Ammonium sulfate	0.1	M	HEPES	30	% v/v	(+/-)-2-Methyl-2,4-pentanediol						7.2
G6				0.08	M	HEPES	8	% w/v	Polyethylene glycol 6,000	4	% v/v (+/-)-2-Methyl-2,4-pentane	20	% v/v	Glycerol	7.4
G7				0.085	M	HEPES	17	% v/v	Jeffamine M-600			15	% v/v	Glycerol	7.5
G8	0.075	M	Sodium chloride	0.075	M	HEPES	1.2	M	Ammonium sulfate			25	% v/v	Glycerol	7.4
G9				0.07	M	HEPES	1.4	M	Ammonium formate			30	% v/v	Glycerol	7.3
G10	0.0375	M	Cadmium sulfate hydrate	0.075	M	HEPES	0.75	M	Sodium acetate trihydrate			25	% v/v	Glycerol	7.3
G11				0.1	M	HEPES	70	% v/v	(+/-)-2-Methyl-2,4-pentanediol						7.4
G12				0.085	M	HEPES	3.655	M	Sodium chloride			15	% v/v	Glycerol	7.8

H1				0.075	M	HEPES	7.5	7.5	% w/v	Polyethylene glycol 8,000	6	% v/v	Ethylene glycol	25	% v/v	Glycerol	7.4
H2				0.075	M	HEPES	7.5	15	% w/v	Polyethylene glycol 10,000				25	% v/v	Glycerol	7.5
H3	0.2	M	Magnesium chloride hexahydrate	0.1	M	Tris	8.5	3.4	M	1,6-Hexanediol							8.4
H4				0.075	M	Tris	8.5	18.75	% v/v	tert-Butanol				25	% v/v	Glycerol	8.3
H5	0.0075	M	Nickel(II) chloride hexahydrate	0.075	M	Tris	8.5	0.75	M	Lithium sulfate monohydrate				25	% v/v	Glycerol	8.4
H6	1.275	M	Ammonium sulfate	0.085	M	Tris	8.5							25	% v/v	Glycerol	8.1
H7	0.2	M	Ammonium phosphate monobasic	0.1	M	Tris	8.5	50	% v/v	(+/-)-2-Methyl-2,4-pentanediol							6.3
H8				0.075	M	Tris	8.5	15	% v/v	Ethanol				25	% v/v	Glycerol	8.4
H9	0.008	M	Nickel(II) chloride hexahydrate	0.08	M	Tris	8.5	16	% w/v	Polyethylene glycol monomethyl ether 2,000				20	% v/v	Glycerol	8.3
H10	0.085	M	Sodium chloride	0.085	M	BICINE	9.0	17	% v/v	Polyethylene glycol monomethyl ether 550				15	% v/v	Glycerol	9.0
H11				0.095	M	BICINE	9.0	1.9	M	Magnesium chloride hexahydrate				5	% v/v	Glycerol	7.4
H12				0.07	M	BICINE	9.0	1.4	% v/v	1,4-Dioxane	7	% w/v	Polyethylene glycol 20,000	30	% v/v	Glycerol	9.1