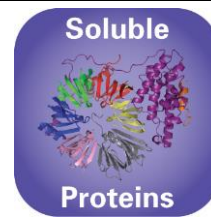
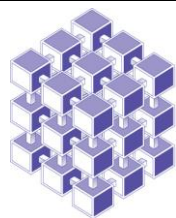


**JCSG-plus™**

**Conditions 1-48 (Box 1)**

**MD1-37**

Tube #	Conc.	Salt	Conc.	Buffer	pH	Conc.	Precipitant
1-1	0.2 M	Lithium sulfate	0.1 M	Sodium acetate	4.5	50 % w/v	PEG 400
1-2		None	0.1 M	Sodium citrate	5.5	20 % w/v	PEG 3000
1-3	0.2 M	Ammonium citrate dibasic		None		20 % w/v	PEG 3350
1-4	0.02 M	Calcium chloride dihydrate	0.1 M	Sodium acetate	4.6	30 % v/v	MPD
1-5	0.2 M	Magnesium formate dihydrate		None		20 % w/v	PEG 3350
1-6	0.2 M	Lithium sulfate	0.1 M	Phosphate/citrate	4.2	20 % w/v	PEG 1000
1-7		None	0.1 M	CHES	9.5	20 % w/v	PEG 8000
1-8	0.2 M	Ammonium formate		None		20 % w/v	PEG 3350
1-9	0.2 M	Ammonium chloride		None		20 % w/v	PEG 3350
1-10	0.2 M	Potassium formate		None		20 % w/v	PEG 3350
1-11	0.2 M	Ammonium phosphate monobasic	0.1 M	Tris	8.5	50 % v/v	MPD
1-12	0.2 M	Potassium nitrate		None		20 % w/v	PEG 3350
1-13	0.8 M	Ammonium sulfate	0.1 M	Citrate	4.0		None
1-14	0.2 M	Sodium thiocyanate		None		20 % w/v	PEG 3350
1-15		None	0.1 M	BICINE	9.0	20 % w/v	PEG 6000
1-16		None	0.1 M	HEPES	7.5	10 % w/v	PEG 8000
						8 % v/v	Ethylene glycol
1-17		None	0.1 M	Sodium cacodylate	6.5	40 % v/v	MPD
						5 % w/v	PEG 8000
1-18		None	0.1 M	Phosphate/citrate	4.2	40 % v/v	Ethanol
						5 % w/v	PEG 1000
1-19		None	0.1 M	Sodium acetate	4.6	8 % w/v	PEG 4000
1-20	0.2 M	Magnesium chloride hexahydrate	0.1 M	Tris	7.0	10 % w/v	PEG 8000
1-21		None	0.1 M	Citrate	5.0	20 % w/v	PEG 6000
1-22	0.2 M	Magnesium chloride hexahydrate	0.1 M	Sodium cacodylate	6.5	50 % v/v	PEG 200
1-23	1.6 M	Sodium citrate tribasic dihydrate pH 6.5		None			None
1-24	0.2 M	Potassium citrate tribasic monohydrate		None		20 % w/v	PEG 3350
1-25	0.2 M	Sodium chloride	0.1 M	Phosphate/citrate	4.2	20 % w/v	PEG 8000
1-26	1.0 M	Lithium chloride	0.1 M	Citrate	4.0	20 % w/v	PEG 6000
1-27	0.2 M	Ammonium nitrate		None		20 % w/v	PEG 3350
1-28		None	0.1 M	HEPES	7.0	10 % w/v	PEG 6000
1-29	0.8 M	Sodium phosphate monobasic monohydrate	0.1 M	Sodium HEPES	7.5		None
	0.80 M	Potassium phosphate monobasic					
1-30		None	0.1 M	Phosphate/citrate	4.2	40 % v/v	PEG 300
1-31	0.2 M	Zinc acetate dihydrate	0.1 M	Sodium acetate	4.5	10 % w/v	PEG 3000
1-32		None	0.1 M	Tris	8.5	20 % v/v	Ethanol
1-33		None	0.1 M	Sodium/potassium phosphate	6.2	25 % v/v	1,2-Propandiol
						10 %v/v	Glycerol
1-34		None	0.1 M	BICINE	9.0	10 % w/v	PEG 20,000
						2 % v/v	1,4-Dioxane
1-35	2.0 M	Ammonium sulfate	0.1 M	Sodium acetate	4.6		None
1-36		None		None		10 % w/v	PEG 1000
						10 % w/v	PEG 8000
1-37		None		None		24 % w/v	PEG 1500
						20 % v/v	Glycerol
1-38	0.2 M	Magnesium chloride hexahydrate	0.1 M	Sodium HEPES	7.5	30 % v/v	PEG 400
1-39	0.2 M	Sodium chloride	0.1 M	Sodium/potassium phosphate	6.2	50 % v/v	PEG 200
1-40	0.2 M	Lithium sulfate	0.1 M	Sodium acetate	4.5	30 % w/v	PEG 8000
1-41		None	0.1 M	HEPES	7.5	70 % v/v	MPD
1-42	0.2 M	Magnesium chloride hexahydrate	0.1 M	Tris	8.5	20 % w/v	PEG 8000
1-43	0.2 M	Lithium sulfate	0.1 M	Tris	8.5	40 % v/v	PEG 400
1-44		None	0.1 M	Tris	8.0	40 % v/v	MPD
1-45	0.17 M	Ammonium sulfate		None		25.5 % w/v	PEG 4000
						15 % v/v	Glycerol
1-46	0.2 M	Calcium acetate hydrate	0.1 M	Sodium cacodylate	6.5	40 % v/v	PEG 300
1-47	0.14 M	Calcium chloride dihydrate	0.07 M	Sodium acetate	4.6	14 % v/v	2-Propanol
						30 % v/v	Glycerol
1-48	0.04 M	Potassium phosphate monobasic		None		16 % w/v	PEG 8000
						20 % v/v	Glycerol



**JCSG-plus™**

**Conditions 1-48 (Box 2)**

**MD1-37**

Tube #	Conc.	Salt	Conc.	Buffer	pH	Conc.	Precipitant
2-1	1.0 M	Sodium citrate tribasic dihydrate	0.1 M	Sodium cacodylate	6.5		None
2-2	2.0 M	Ammonium sulfate	0.1 M	Sodium cacodylate	6.5		None
	0.2 M	Sodium chloride					
2-3	0.2 M	Sodium chloride	0.1 M	HEPES	7.5	10 % v/v	2-Propanol
2-4	1.26 M	Ammonium sulfate	0.1 M	Tris	8.5		None
	0.2 M	Lithium sulfate					
2-5		None	0.1 M	CAPS	10.5	40 % v/v	MPD
2-6	0.2 M	Zinc acetate dihydrate	0.1 M	Imidazole	8.0	20 % w/v	PEG 3000
2-7	0.2 M	Zinc acetate dihydrate	0.1 M	Sodium cacodylate	6.5	10 % v/v	2-Propanol
2-8	1.0 M	Ammonium phosphate dibasic	0.1 M	Sodium acetate	4.5		None
2-9	1.6 M	Magnesium sulfate heptahydrate	0.1 M	MES	6.5		None
2-10		None	0.1 M	BICINE	9.0	10 % w/v	PEG 6000
2-11	0.16 M	Calcium acetate hydrate	0.08 M	Sodium cacodylate	6.5	14.4 % w/v	PEG 8000
						20 % v/v	Glycerol
2-12		None	0.1 M	Imidazole	8.0	10 % w/v	PEG 8000
2-13	0.05 M	Cesium chloride	0.1 M	MES	6.5	30 % v/v	Jeffamine® M-600
2-14	3.2 M	Ammonium sulfate	0.1 M	Citrate	5.0		None
2-15		None	0.1 M	Tris	8.0	20 % v/v	MPD
2-16		None	0.1 M	HEPES	7.5	20 % v/v	Jeffamine® M-600
2-17	0.2 M	Magnesium chloride hexahydrate	0.1 M	Tris	8.5	50 % v/v	Ethylene glycol
2-18		None	0.1 M	BICINE	9.0	10 % v/v	MPD
2-19	0.8 M	Succinic acid pH 7.0		None			None
2-20	2.1 M	DL-Malic acid pH 7.0		None			None
2-21	2.4 M	Sodium malonate dibasic monohydrate pH 7.0		None			None
2-22	1.1 M	Sodium malonate dibasic monohydrate	0.1 M	HEPES	7.0	0.5 % v/v	Jeffamine® ED-2003
2-23	1.0 M	Succinic acid	0.1 M	HEPES	7.0	1 % w/v	PEG 2000 MME
2-24		None	0.1 M	HEPES	7.0	30 % v/v	Jeffamine® M-600
2-25		None	0.1 M	HEPES	7.0	30 % v/v	Jeffamine® ED-2003
2-26	0.02 M	Magnesium chloride hexahydrate	0.1 M	HEPES	7.5	22 % w/v	Poly(acrylic acid sodium salt) 5100
2-27	0.01 M	Cobalt(II) chloride hexahydrate	0.1 M	Tris	8.5	20 % w/v	Polyvinylpyrrolidone
2-28	0.2 M	TMAO	0.1 M	Tris	8.5	20 % w/v	PEG 2000 MME
2-29	0.005 M	Cobalt(II) chloride hexahydrate	0.1 M	HEPES	7.5	12 % w/v	PEG 3350
	0.005 M	Cadmium chloride hemi(pentahydrate)					
	0.005 M	Magnesium chloride hexahydrate					
	0.005 M	Nickel(II) chloride hexahydrate					
2-30	0.2 M	Sodium malonate dibasic monohydrate		None		20 % w/v	PEG 3350
2-31	0.1 M	Succinic acid		None		15 % w/v	PEG 3350
2-32	0.15 M	DL-Malic acid		None		20 % w/v	PEG 3350
2-33	0.1 M	Potassium thiocyanate		None		30 % w/v	PEG 2000 MME
2-34	0.15 M	Potassium bromide		None		30 % w/v	PEG 2000 MME
2-35	2.0 M	Ammonium sulfate	0.1 M	BIS-Tris	5.5		None
2-36	3.0 M	Sodium chloride	0.1 M	BIS-Tris	5.5		None
2-37	0.3 M	Magnesium formate dihydrate	0.1 M	BIS-Tris	5.5		None
2-38	1.0 M	Ammonium sulfate	0.1 M	BIS-Tris	5.5	1 % w/v	PEG 3350
2-39		None	0.1 M	BIS-Tris	5.5	25 % w/v	PEG 3350
2-40	0.2 M	Calcium chloride dihydrate	0.1 M	BIS-Tris	5.5	45 % v/v	MPD
2-41	0.2 M	Ammonium acetate	0.1 M	BIS-Tris	5.5	45 % v/v	MPD
2-42	0.1 M	Ammonium acetate	0.1 M	BIS-Tris	5.5	17 % w/v	PEG 10,000
2-43	0.2 M	Ammonium sulfate	0.1 M	BIS-Tris	5.5	25 % w/v	PEG 3350
2-44	0.2 M	Sodium chloride	0.1 M	BIS-Tris	5.5	25 % w/v	PEG 3350
2-45	0.2 M	Lithium sulfate	0.1 M	BIS-Tris	5.5	25 % w/v	PEG 3350
2-46	0.2 M	Ammonium acetate	0.1 M	BIS-Tris	5.5	25 % w/v	PEG 3350
2-47	0.2 M	Magnesium chloride hexahydrate	0.1 M	BIS-Tris	5.5	25 % w/v	PEG 3350
2-48	0.2 M	Ammonium acetate	0.1 M	HEPES	7.5	45 % v/v	MPD

**Abbreviations:** Bis-Tris; Bis-(2-hydroxyethyl)imino-tris(hydroxymethyl)methane, **CAPS**; N-Cyclohexyl-3-aminopropanesulfonic acid, **CHES**; 2-(N-Cyclohexylamino)ethane Sulfonic Acid, **HEPES**; 2-(4-(2-Hydroxyethyl)-1-piperazinyl)ethanesulfonic Acid, **Sodium HEPES**; 2-(4-(2-Hydroxyethyl)-1-piperazinyl)ethanesulfonic Acid Sodium Salt, **MES**; 2-(N-morpholino)ethanesulfonic acid, **MPD**; 2,4-methyl pentanediol, **PEG**; Polyethylene glycol, **TMAO**: Trimethylamine N-oxide, **Tris**; 2-Amino-2-(hydroxymethyl)propane-1,3-diol.

**N.B. Jeffamine® ED-2001 has been superseded with Jeffamine® ED-2003. Polyvinylpyrrolidone K15 is called Polyvinylpyrrolidone.**