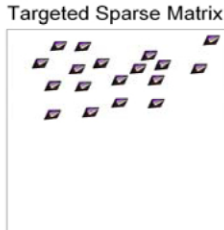
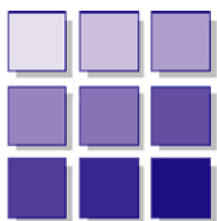


MemGold

Box 1 - Tubes 1-24

MD1-39

Tube #	Salt	Buffer	pH	Precipitant
A1	None	0.08 M sodium citrate	5.2	2.2 M ammonium sulfate
A2	None	0.01 M Tris	8.0	1.2 M tri-sodium citrate
A3	None	0.015 M tricine	8.5	24 % w/v PEG 4000
A4	0.36 M sodium chloride/0.1% w/v sodium azide	0.015 M sodium phosphate	7.0	9.9 % w/v PEG 4000
A5	0.3 M sodium chloride	0.01 M Tris	8.0	27.5 % w/v PEG 4000
A6	None	0.225 M MES/bis-tris	6.6	6.6 % w/v PEG 6000
A7	0.1 M ammonium sulfate	0.1 M HEPES	7.5	12.0 % w/v PEG 4000/ 22 % v/v glycerol
A8	0.02 M calcium chloride/0.01 M magnesium sulfate/0.02 M sodium chloride	0.02 M MES	6.5	7.7 % w/v PEG 1500
A9	None	0.05 M HEPES	7.5	2.5 M ammonium sulfate
A10	None	0.0665 M HEPES	7.5	1.1 M tri-sodium citrate
A11	None	0.15 M potassium phosphate	6.5	3.3 M ammonium sulfate
A12	0.1 M magnesium acetate	0.1 M sodium citrate	5.8	14 % w/v PEG 5000 MME
B1	0.1 M sodium chloride	0.02 M sodium citrate	5.6	11 % w/v PEG 3350
B2	0.1 M sodium chloride	0.02 M sodium citrate	5.6	5.5 % w/v PEG 3350
B3	0.05 M calcium chloride/0.05 M barium chloride	0.1 M Tris	8.2	32 % v/v PEG 400
B4	0.05 M sodium chloride	0.1 M sodium phosphate	6.2	16 % w/v PEG 4000
B5	0.1 M magnesium chloride	0.03 M Tris-hydrochloride	8.2	19 % w/v PEG 4000
B6	0.2 M sodium chloride	0.025 M HEPES	7.5	13 % w/v PEG 4000
B7	None	0.1 M HEPES	7.5	11 % w/v PEG 3350
B8	0.1 M sodium chloride	0.02 M KMES	6.7	6.6 % w/v PEG 4000
B9	0.1 M potassium chloride	0.02 M Tris	7.0	20 % w/v PEG 4000
B10	0.05 M magnesium chloride/0.1% w/v sodium azide	0.1 M sodium cacodylate	6.7	6.6 % w/v PEG 3350
B11	0.2 M potassium chloride	0.1 M sodium citrate	5.5	37 % v/v pentaerythritol propoxylate (5/4 PO/OH)
B12	None	0.1 M Tris	8.0	5.5 % w/v PEG 4000

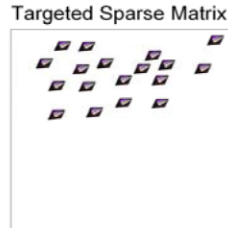
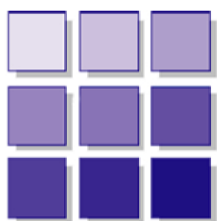


MemGold

Box 1 - Tubes 25-48

MD1-39

Tube #	Salt	Buffer	pH	Precipitant
C1	0.1 M sodium chloride	0.02 M Tris	7.0	7.7 % w/v PEG 4000
C2	0.1 M magnesium chloride	0.1 M Tris	7.5	22 % v/v PEG 400
C3	0.04 M sodium chloride	0.04 M Tris	8.0	27 % v/v PEG 350 MME
C4	0.05 M sodium chloride/0.02 M magnesium chloride	0.1 M sodium citrate	6.0	22 % v/v PEG 400
C5	None	0.1 M sodium acetate	5.5	8.8 % w/v PEG 2000 MME
C6	None	0.4 M ammonium acetate	8.0	13 % w/v PEG 2000 MME
C7	None	0.02 M bis Tris	7.0	15 % w/v PEG 2000
C8	0.1 M sodium chloride/0.1 M magnesium chloride	0.02 M Tris	7.5	11 % w/v PEG 1500
C9	0.1 M sodium chloride/0.1 M magnesium chloride	0.1 M HEPES	8.0	11 % w/v PEG 1500
C10	0.2 M sodium acetate/0.2 M Potassium Chloride	0.1 M HEPES	7.0	22 % w/v PEG 3000
C11	0.02 M nickel sulfate	0.01 M HEPES	7.0	33 % v/v Jeffamine-M600
C12	0.15 M sodium chloride	0.1 M Tris	8.0	13 % w/v PEG 6000
D1	0.2 M calcium chloride	0.1 M HEPES	7.5	53 % v/v PEG 400
D2	0.05 M magnesium acetate	0.05 M sodium acetate	5.0	28 % v/v PEG 400
D3	None	0.05 M HEPES	7.5	22 % v/v PEG 4000
D4	0.2 M calcium chloride	0.1 M Tris hydrochloride	8.0	44 % v/v PEG 400
D5	0.05 M magnesium acetate	0.05 M sodium acetate	5.4	24 % v/v PEG 400
D6	0.2 M calcium chloride	0.1 M MES	6.5	26 % v/v PEG 350 MME
D7	0.1 M potassium chloride	0.1 M Tris	8.5	39 % v/v PEG 400
D8	0.05 M magnesium chloride	0.1 M glycine	9.0	22 % v/v PEG 400
D9	0.1 M ammonium sulfate	0.1 M glycine	3.8	28 % w/v tri-ethylene glycol
D10	0.15 M sodium formate	0.1 M HEPES	7.2	18 % w/v PEG 3350
D11	None	0.2 M sodium acetate	6.8	8.8 % w/v PEG 6000
D12	0.2 M potassium chloride	0.1 M MES	6.5	18 % w/v PEG 6000

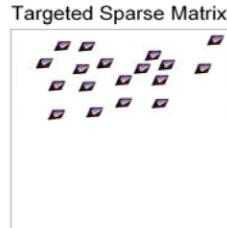
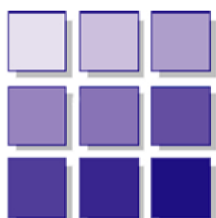


MemGold

Box 2 - Tubes 1-24

MD1-39

Tube #	Salt	Buffer	pH	Precipitant
E1	0.22 M sodium citrate	0.1 M Tris	8.0	35 % v/v PEG 400
E2	None	0.1 M sodium acetate	4.5	17 % v/v PEG 400
E3	None	0.02 M Tris	8.5	1.0 M lithium sulfate/1.8 % w/v PEG 8000
E4	None	0.02 M Tris	7.5	22 % v/v PEG 550 MME
E5	0.05 M sodium chloride	0.02 M glycine	10.0	33 % w/v PEG 1000
E6	0.2 M magnesium chloride	0.1 M Tris	8.5	25 % w/v PEG 4000
E7	0.2 M magnesium chloride	0.1 M sodium cacodylate	6.5	31 % w/v PEG 2000
E8	None	0.64 M sodium acetate	4.6	18 % w/v PEG 3350
E9	0.1 M sodium chloride/0.1 M cadmium chloride	0.1 M Tris hydrochloride	8.0	33 % v/v PEG 400
E10	None	0.1 M Bicine	8.9	31 % w/v PEG 2000
E11	0.05 M sodium sulfate/0.05 M lithium sulfate	0.05 M Tris	8.5	35 % v/v PEG 400
E12	0.1 M sodium chloride	0.05 M glycine	9.5	33 % v/v PEG 300
F1	0.3 M magnesium nitrate	0.1 M Tris	8.0	23 % w/v PEG 2000
F2	0.12 M lithium sulfate	0.02 M Tris/0.1 M sodium citrate	7.5/ 5.0	20 % v/v PEG 300
F3	0.1 M sodium chloride	0.12 M Tris	9.4	20 % v/v PEG 400
F4	0.2 M sodium chloride	0.1 M HEPES	7.0	22 % v/v PEG 550 MME
F5	0.1 M sodium chloride/0.325 M sodium acetate	0.1 M Tris	8.0	21 % v/v PEG 400
F6	0.02 M sodium citrate	0.08 M sodium phosphate	6.2	18 % w/v PEG 2000
F7	0.02 M potassium nitrate	0.03 M potassium citrate	6.5	7.7 % w/v PEG 4000
F8	0.1 M sodium chloride/0.005 M magnesium chloride	0.1 M Tris	8.5	30 % w/v PEG 2000 MME
F9	0.2 M calcium chloride	0.1 M HEPES	7.0	33 % v/v PEG 400
F10	0.1 M calcium chloride	0.1 M Tris	6.5	13 % w/v PEG 2000 MME
F11	0.2 M ammonium sulfate/0.02 M sodium chloride	0.02 M sodium acetate	4.0	33 % v/v PEG 200
F12	0.07 M sodium chloride	0.05 M sodium citrate	4.5	22 % v/v PEG 400



MemGold

Box 2 - Tubes 25-48

MD1-39

Tube #	Salt	Buffer	pH	Precipitant
G1	0.2 M ammonium sulfate	0.1 M sodium acetate	4.6	28 % v/v PEG 550 MME
G2	None	0.05 M glycine	9.0	55 % v/v PEG 400
G3	0.1 M magnesium chloride/0.1M sodium chloride	0.1 M Tris	8.5	33 % v/v PEG 400
G4	0.1 M lithium sulfate/0.05 M di-sodium hydrogen phosphate	0.05 M citric acid	None	19 % w/v PEG 1000
G5	0.2 M magnesium chloride/ 0.1 M potassium chloride	0.025 M sodium citrate	4.0	33 % v/v PEG 400
G6	0.05 M zinc acetate	0.05 M MES	6.1	11 % w/v PEG 8000
G7	0.3 M magnesium nitrate	0.1 M Tris	8.0	22 % w/v PEG 8000
G8	0.1 M sodium chloride/4% v/v ethylene glycol	0.1 M MES	6.5	33 % v/v PEG 400
G9	0.05 M sodium chloride	0.1 M sodium citrate	5.5	26 % v/v PEG 400
G10	0.1 M lithium sulfate	0.1 M glycine	9.3	30 % v/v PEG 400
G11	0.15 M potassium citrate/ 0.05 M lithium citrate	0.1 M sodium phosphate	-	22 % w/v PEG 6000
G12	0.001 M zinc sulfate	0.05 M HEPES	7.8	28 % v/v PEG 600
H1	0.1 M sodium chloride	0.1 M sodium phosphate	7.0	33 % v/v PEG 300
H2	0.1 M sodium chloride	0.05 M Bicine	9.0	33 % v/v PEG 300
H3	0.05 M zinc acetate/6% v/v ethylene glycol	0.1 M sodium cacodylate	6.0	6.6 % w/v PEG 8000
H4	0.2 M lithium sulfate	0.1 M sodium citrate	3.5	28 % v/v PEG 400
H5	0.1 M sodium chloride	0.1 M Tris	7.5	11 % w/v PEG 4000
H6	0.05 M lithium sulfate	0.1 M tricine	7.4	7 % w/v PEG 3000
H7	0.2 M calcium chloride	0.1 M MES	6.5	33% v/v PEG 400
H8	1 M sodium chloride	0.1 M sodium citrate	6.0	28% w/v PEG 4000
H9	None	0.1 M HEPES	7.5	11% w/v PEG 4000
H10	0.002 M zinc sulfate	0.08 M HEPES	7.0	25 % v/v Jeffamine ED2001
H11	0.001 M cadmium chloride/0.03 M magnesium chloride	0.1 M MES	6.5	30 % v/v PEG 400
H12	None	0.1 M bis-tris-propane	7.0	3.0 M sodium chloride

• ***These conditions have been changed from the pre-release (prior to June 2007) beta version of MemGold. The pre-release conditions have been moved to the sister screen MemPlus (MD1-44), a new screen for Outer Membrane protein crystallisation."**

Abbreviations:

ADA; N-(2-Acetamido)iminodiacetic Acid, **Bicine**; N,N-Bis(2-hydroxyethyl)glycine, **CHES**; 2-(N-Cyclohexylamino)ethane sulfonic Acid, **HEPES**; N-(2-hydroxyethyl)-piperazine-N'-2-ethanesulfonic acid, **KMES**; 2-(N-morpholino)ethanesulfonic acid potassium salt, **MES**; 2-(N-morpholino)ethanesulfonic acid, **MME**; Monomethylether, **PEG**; Polyethylene glycol, **Tricine**; N-[Tris(hydroxymethyl)methyl]glycine, **Tris**; 2-Amino-2-(hydroxymethyl)propane-1,3-diol, **Tris HCl**; 2-Amino-2-(hydroxymethyl)propane-1,3-diol, hydrochloride.]