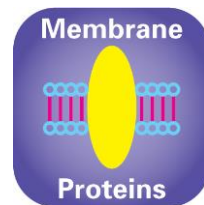


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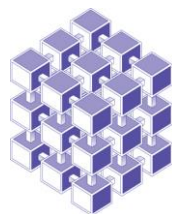


## MemStart™ + MemSys™ HT-96

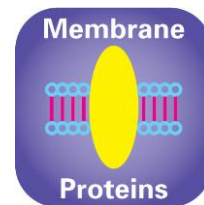
## Conditions A1 – D12

## MD1-33

Well #	Conc.	Salt 1	Conc.	Salt 2	Conc.	Salt 3	Conc.	Buffer	pH	Conc.	Precipitant
A1	2.0 M	Ammonium sulfate					0.1 M	Sodium acetate	4.6		
A2	1.0 M	Ammonium sulfate					0.1 M	ADA	6.5		
A3	2.0 M	Ammonium sulfate									
A4	2.0 M	Ammonium sulfate					0.1 M	Tris	8.5		
A5	1.5 M	Lithium sulfate					0.1 M	Sodium HEPES	7.5		
A6	1.0 M	Magnesium sulfate heptahydrate					0.1 M	Sodium acetate	4.6		
A7	1.0 M	Magnesium sulfate heptahydrate					0.1 M	Sodium citrate	5.6		
A8	1.0 M	Magnesium sulfate heptahydrate	0.1 M	Lithium sulfate			0.1 M	ADA	6.5		
A9							1.0 M	Ammonium phosphate dibasic	6.5		
A10	0.5 M	Potassium phosphate dibasic	0.5 M	Sodium phosphate dibasic	0.1 M	Ammonium sulfate					
A11	1.0 M	Ammonium phosphate monobasic	0.1 M	Lithium sulfate			0.1 M	Sodium acetate	4.6		
A12	1.0 M	Ammonium phosphate monobasic					0.1 M	Sodium citrate	5.6		
B1	2.0 M	Ammonium phosphate monobasic					0.1 M	Tris	8.5		
B2							2.0 M	Sodium formate	4.6		
B3	4.0 M	Sodium formate									
B4	1.4 M	Sodium acetate trihydrate					0.1 M	MES	6.5		
B5	1.4 M	Sodium citrate tribasic dihydrate					0.1 M	Sodium HEPES	7.5		
B6	1.0 M	Potassium sodium tartrate tetrahydrate					0.1 M	Sodium HEPES	7.5		
B7	2.0 M	Ammonium sulfate					0.1 M	Sodium HEPES	7.5	2 % v/v	PEG 400
B8	0.1 M	Magnesium chloride hexahydrate					0.1 M	Sodium acetate	4.6	30 % v/v	PEG 400
B9	0.1 M	Sodium chloride					0.1 M	Sodium citrate	5.6	30 % v/v	PEG 400
B10	0.1 M	Lithium sulfate					0.1 M	Sodium citrate	5.6	30 % v/v	PEG 400
B11	0.3 M	Lithium sulfate					0.1 M	ADA	6.5	30 % v/v	PEG 400
B12	0.1 M	Magnesium chloride hexahydrate					0.1 M	Sodium HEPES	7.5	30 % v/v	PEG 400
C1	0.1 M	Ammonium sulfate					0.1 M	Sodium HEPES	7.5	30 % v/v	PEG 400
C2	0.2 M	Sodium citrate tribasic dihydrate					0.1 M	Tris	8.5	30 % v/v	PEG 400
C3	0.1 M	Zinc acetate dihydrate					0.1 M	Sodium acetate	4.6	12 % w/v	PEG 4000
C4	0.2 M	Ammonium sulfate					0.1 M	Sodium acetate	4.6	12 % w/v	PEG 4000
C5							0.1 M	Sodium acetate	4.6	12 % w/v	PEG 4000
C6	0.1 M	Lithium sulfate					0.1 M	Sodium citrate	5.6	12 % w/v	PEG 4000
C7	0.1 M	Sodium chloride					0.1 M	Sodium citrate	5.6	12 % w/v	PEG 4000
C8	0.1 M	Lithium sulfate					0.1 M	ADA	6.5	12 % w/v	PEG 4000
C9	0.1 M	Sodium chloride					0.1 M	Sodium HEPES	7.5	12 % w/v	PEG 4000
C10	0.1 M	Ammonium sulfate					0.1 M	Sodium HEPES	7.5	12 % w/v	PEG 4000
C11	0.2 M	Magnesium chloride hexahydrate					0.1 M	Tris	8.5	12 % w/v	PEG 4000
C12	0.2 M	Lithium sulfate					0.1 M	Tris	8.5	12 % w/v	PEG 4000
D1	0.2 M	Ammonium sulfate								12 % w/v	PEG 4000
D2	0.1 M	Sodium chloride					0.1 M	Sodium acetate	4.6	12 % w/v	PEG 6000
D3	0.1 M	Magnesium chloride hexahydrate					0.1 M	Sodium acetate	4.6	12 % w/v	PEG 6000
D4	0.1 M	Magnesium chloride hexahydrate					0.1 M	ADA	6.5	12 % w/v	PEG 6000
D5	0.1 M	Ammonium phosphate dibasic					0.1 M	Tris	8.5	12 % w/v	PEG 6000
D6	1.0 M	Lithium sulfate								2 % w/v	PEG 8000
D7	0.2 M	Sodium acetate trihydrate					0.1 M	MES	6.5	10 % w/v	PEG 8000
D8	0.05 M	Zinc acetate dihydrate					0.1 M	MES	6.5	10 % w/v	PEG 8000
D9	0.2 M	Calcium acetate hydrate					0.1 M	MES	6.5	10 % w/v	PEG 8000
D10							0.1 M	Tris	8.5	10 % w/v	PEG 8000
D11	0.2 M	Ammonium sulfate								10 % w/v	PEG 8000
D12	0.5 M	Lithium sulfate								10 % w/v	PEG 8000



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## MemStart™ + MemSys™ HT-96

## Conditions E1 – H12

## MD1-33

Well #	Conc.	Salt 1	Conc.	Salt 2	Conc.	Salt 3	Conc.	Buffer	pH	Conc.	Precipitant
E1	2.5 M	Ammonium sulfate			0.1 M	Sodium citrate		5.5			
E2	0.1 M	Sodium chloride	0.1 M	Lithium sulfate	0.1 M	Sodium citrate		3.5		30 % v/v	PEG 400
E3	0.1 M	Sodium chloride	0.1 M	Magnesium chloride hexahydrate	0.1 M	Sodium acetate		4.5		30 % v/v	PEG 400
E4	0.1 M	Sodium chloride			0.1 M	Sodium citrate		5.5		30 % v/v	PEG 400
E5	0.1 M	Sodium chloride	0.1 M	Lithium sulfate	0.1 M	Sodium citrate		5.5		30 % v/v	PEG 400
E6	0.1 M	Sodium chloride	0.1 M	Magnesium chloride hexahydrate	0.1 M	Sodium citrate		5.5		30 % v/v	PEG 400
E7	2.5 M	Ammonium sulfate			0.1 M	MES		6.5			
E8					0.1 M	MES		6.5		30 % v/v	PEG 400
E9	0.1 M	Sodium chloride			0.1 M	MES		6.5		30 % v/v	PEG 400
E10	0.1 M	Sodium chloride	0.1 M	Lithium sulfate	0.1 M	MES		6.5		30 % v/v	PEG 400
E11	0.1 M	Sodium chloride	0.1 M	Magnesium chloride hexahydrate	0.1 M	MES		6.5		30 % v/v	PEG 400
E12					0.1 M	MOPS		7.0		30 % v/v	PEG 400
F1	2.5 M	Ammonium sulfate			0.1 M	Sodium HEPES		7.5			
F2	0.1 M	Sodium chloride			0.1 M	MOPS		7.0		30 % v/v	PEG 400
F3					0.1 M	Sodium HEPES		7.5		30 % v/v	PEG 400
F4	0.1 M	Sodium chloride			0.1 M	Sodium HEPES		7.5		30 % v/v	PEG 400
F5	0.1 M	Sodium chloride	0.1 M	Lithium sulfate	0.1 M	Sodium HEPES		7.5		30 % v/v	PEG 400
F6	0.1 M	Sodium chloride	0.1 M	Magnesium chloride hexahydrate	0.1 M	Sodium HEPES		7.5		30 % v/v	PEG 400
F7	1.5 M	Lithium sulfate			0.1 M	Tris		8.5			
F8	0.1 M	Sodium chloride			0.1 M	Tris		8.5		30 % v/v	PEG 400
F9	0.1 M	Sodium chloride	0.1 M	Lithium sulfate	0.1 M	Tris		8.5		30 % v/v	PEG 400
F10	0.1 M	Sodium chloride	0.1 M	Magnesium chloride hexahydrate	0.1 M	Tris		8.5		30 % v/v	PEG 400
F11	0.1 M	Sodium chloride	0.1 M	Lithium sulfate	0.1 M	CAPSO		9.5		30 % v/v	PEG 400
F12	0.1 M	Sodium chloride	0.1 M	Magnesium chloride hexahydrate	0.1 M	CAPSO		9.5		30 % v/v	PEG 400
G1	1.5 M	Sodium phosphate monobasic monohydrate			0.1 M	Sodium citrate		5.5			
G2	0.1 M	Sodium chloride	0.1 M	Magnesium chloride hexahydrate	0.1 M	Sodium citrate		3.5		12 % w/v	PEG 4000
G3	0.1 M	Sodium chloride	0.1 M	Lithium sulfate	0.1 M	Sodium acetate		4.5		12 % w/v	PEG 4000
G4	0.1 M	Sodium chloride			0.1 M	Sodium citrate		5.5		12 % w/v	PEG 4000
G5	0.1 M	Sodium chloride	0.1 M	Lithium sulfate	0.1 M	Sodium citrate		5.5		12 % w/v	PEG 4000
G6	0.1 M	Sodium chloride	0.1 M	Magnesium chloride hexahydrate	0.1 M	Sodium citrate		5.5		12 % w/v	PEG 4000
G7	1.5 M	Sodium phosphate monobasic monohydrate			0.1 M	MES		6.5			
G8					0.1 M	MES		6.5		12 % w/v	PEG 4000
G9	0.1 M	Sodium chloride			0.1 M	MES		6.5		12 % w/v	PEG 4000
G10	0.1 M	Sodium chloride	0.1 M	Lithium sulfate	0.1 M	MES		6.5		12 % w/v	PEG 4000
G11	0.1 M	Sodium chloride	0.1 M	Magnesium chloride hexahydrate	0.1 M	MES		6.5		12 % w/v	PEG 4000
G12					0.1 M	MOPS		7.0		12 % w/v	PEG 4000
H1	1.5 M	Potassium phosphate dibasic			0.1 M	Sodium HEPES		7.5			
H2	0.1 M	Sodium chloride			0.1 M	MOPS		7.0		12 % w/v	PEG 4000
H3					0.1 M	Sodium HEPES		7.5		12 % w/v	PEG 4000
H4	0.1 M	Sodium chloride			0.1 M	Sodium HEPES		7.5		12 % w/v	PEG 4000
H5	0.1 M	Sodium chloride	0.1 M	Lithium sulfate	0.1 M	Sodium HEPES		7.5		12 % w/v	PEG 4000
H6	0.1 M	Sodium chloride	0.1 M	Magnesium chloride hexahydrate	0.1 M	Sodium HEPES		7.5		12 % w/v	PEG 4000
H7	1.5 M	Potassium phosphate dibasic			0.1 M	Tris		8.5			
H8	0.1 M	Sodium chloride			0.1 M	Tris		8.5		12 % w/v	PEG 4000
H9	0.1 M	Sodium chloride	0.1 M	Lithium sulfate	0.1 M	Tris		8.5		12 % w/v	PEG 4000
H10	0.1 M	Sodium chloride	0.1 M	Magnesium chloride hexahydrate	0.1 M	Tris		8.5		12 % w/v	PEG 4000
H11	0.1 M	Sodium chloride	0.1 M	Lithium sulfate	0.1 M	CAPSO		9.5		12 % w/v	PEG 4000
H12	0.1 M	Sodium chloride	0.1 M	Magnesium chloride hexahydrate	0.1 M	CAPSO		9.5		12 % w/v	PEG 4000

### Abbreviations:

**ADA**; N-(2-Acetamido)iminodiacetic Acid, **CAPSO**; 3-(Cyclohexylamino)-2-hydroxy-1-propanesulfonic Acid Sodium Salt, **Sodium HEPES**; N-(2-hydroxyethyl)-piperazine-N'-2-ethanesulfonic acid, sodium salt, **MES**; 2-(N-morpholino)ethanesulfonic acid, **MOPS**; 3-(N-Morpholino)-propanesulfonic acid **PEG**; Polyethylene glycol, **Tris**; 2-Amino-2-(hydroxymethyl)propane-1,3-diol.