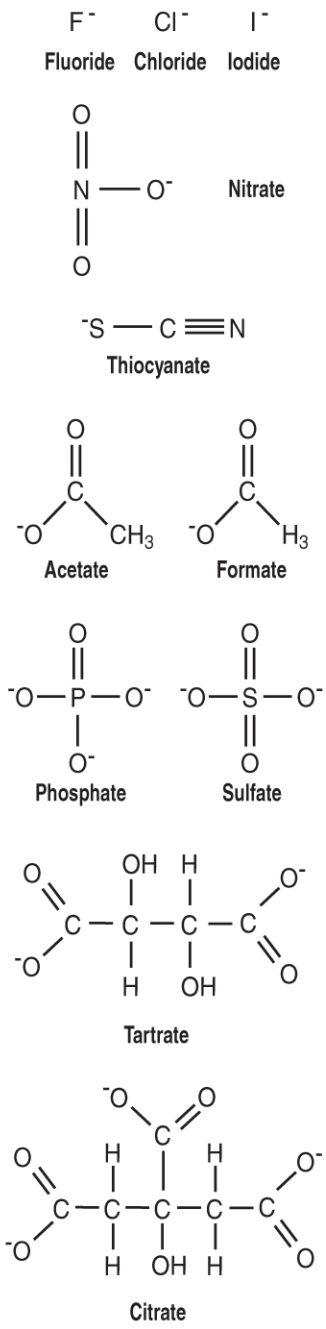
Tube #		Salt	Tube #	Polymer	Tube #	pH ◊
A1	1.	0.2 M Sodium fluoride	1.	20% w/v Polyethylene glycol 3,350	1.	7.3
A2	2.	0.2 M Potassium fluoride	2.	20% w/v Polyethylene glycol 3,350	2.	7.3
A3	3.	0.2 M Ammonium fluoride	3.	20% w/v Polyethylene glycol 3,350	3.	6.2
A4	4.	0.2 M Lithium chloride	4.	20% w/v Polyethylene glycol 3,350	4.	6.8
A5	5.	0.2 M Magnesium chloride hexahydrate	5.	20% w/v Polyethylene glycol 3,350	5.	5.9
A6	6.	0.2 M Sodium chloride	6.	20% w/v Polyethylene glycol 3,350	6.	6.9
A7	7.	0.2 M Calcium chloride dihydrate	7.	20% w/v Polyethylene glycol 3,350	7.	5.1
A8	8.	0.2 M Potassium chloride	8.	20% w/v Polyethylene glycol 3,350	8.	7.0
A9	9.	0.2 M Ammonium chloride	9.	20% w/v Polyethylene glycol 3,350	9.	6.3
A10	10.	0.2 M Sodium iodide	10.	20% w/v Polyethylene glycol 3,350	10.	7.0
A11	11.	0.2 M Potassium iodide	11.	20% w/v Polyethylene glycol 3,350	11.	7.0
A12	12.	0.2 M Ammonium iodide	12.	20% w/v Polyethylene glycol 3,350	12.	6.2
B1	13.	0.2 M Sodium thiocyanate	13.	20% w/v Polyethylene glycol 3,350	13.	6.9
B2	14.	0.2 M Potassium thiocyanate	14.	20% w/v Polyethylene glycol 3,350	14.	7.0
B3	15.	0.2 M Lithium nitrate	15.	20% w/v Polyethylene glycol 3,350	15.	7.1
B4	16.	0.2 M Magnesium nitrate hexahydrate	16.	20% w/v Polyethylene glycol 3,350	16.	5.9
B5	17.	0.2 M Sodium nitrate	17.	20% w/v Polyethylene glycol 3,350	17.	6.8
B6	18.	0.2 M Potassium nitrate	18.	20% w/v Polyethylene glycol 3,350	18.	6.8
B7	19.	0.2 M Ammonium nitrate	19.	20% w/v Polyethylene glycol 3,350	19.	6.2
B8	20.	0.2 M Magnesium formate dihydrate	20.	20% w/v Polyethylene glycol 3,350	20.	7.0
B9	21.	0.2 M Sodium formate	21.	20% w/v Polyethylene glycol 3,350	21.	7.2
B10	22.	0.2 M Potassium formate	22.	20% w/v Polyethylene glycol 3,350	22.	7.3
B11	23.	0.2 M Ammonium formate	23.	20% w/v Polyethylene glycol 3,350	23.	6.6
B12	24.	0.2 M Lithium acetate dihydrate	24.	20% w/v Polyethylene glycol 3,350	24.	7.9
C1	25.	0.2 M Magnesium acetate tetrahydrate	25.	20% w/v Polyethylene glycol 3,350	25.	7.9
C2	26.	0.2 M Zinc acetate dihydrate	26.	20% w/v Polyethylene glycol 3,350	26.	6.4
C3	27.	0.2 M Sodium acetate trihydrate	27.	20% w/v Polyethylene glycol 3,350	27.	8.0
C4	28.	0.2 M Calcium acetate hydrate	28.	20% w/v Polyethylene glycol 3,350	28.	7.5
C5	29.	0.2 M Potassium acetate	29.	20% w/v Polyethylene glycol 3,350	29.	8.1
C6	30.	0.2 M Ammonium acetate	30.	20% w/v Polyethylene glycol 3,350	30.	7.1
C7	31.	0.2 M Lithium sulfate monohydrate	31.	20% w/v Polyethylene glycol 3,350	31.	6.0
C8	32.	0.2 M Magnesium sulfate heptahydrate	32.	20% w/v Polyethylene glycol 3,350	32.	6.0
C9	33.	0.2 M Sodium sulfate decahydrate	33.	20% w/v Polyethylene glycol 3,350	33.	6.7
C10	34.	0.2 M Potassium sulfate	34.	20% w/v Polyethylene glycol 3,350	34.	6.8
C11	35.	0.2 M Ammonium sulfate	35.	20% w/v Polyethylene glycol 3,350	35.	6.0
C12	36.	0.2 M Sodium tartrate dibasic dihydrate	36.	20% w/v Polyethylene glycol 3,350	36.	7.3
D1	37.	0.2 M Potassium sodium tartrate tetrahydrate	37.	20% w/v Polyethylene glycol 3,350	37.	7.4
D2	38.	0.2 M Ammonium tartrate dibasic	38.	20% w/v Polyethylene glycol 3,350	38.	6.6
D3	39.	0.2 M Sodium phosphate monobasic monohydrate	39.	20% w/v Polyethylene glycol 3,350	39.	4.7
D4	40.	0.2 M Sodium phosphate dibasic dihydrate	40.	20% w/v Polyethylene glycol 3,350	40.	9.1
D5	41.	0.2 M Potassium phosphate monobasic	41.	20% w/v Polyethylene glycol 3,350	41.	4.8
D6	42.	0.2 M Potassium phosphate dibasic	42.	20% w/v Polyethylene glycol 3,350	42.	9.2
D7	43.	0.2 M Ammonium phosphate monobasic	43.	20% w/v Polyethylene glycol 3,350	43.	4.6
D8	44.	0.2 M Ammonium phosphate dibasic	44.	20% w/v Polyethylene glycol 3,350	44.	8.0
D9	45.	0.2 M Lithium citrate tribasic tetrahydrate	45.	20% w/v Polyethylene glycol 3,350	45.	8.4
D10	46.	0.2 M Sodium citrate tribasic dihydrate	46.	20% w/v Polyethylene glycol 3,350	46.	8.3
D11	47.	0.2 M Potassium citrate tribasic monohydrate	47.	20% w/v Polyethylene glycol 3,350	47.	8.3
D12	48.	0.2 M Ammonium citrate dibasic	48.	20% w/v Polyethylene glycol 3,350	48.	5.1



◊ Measured pH at 25 ° C

PEG/Ion Screen contains forty-eight unique reagents. To determine the formulation of each reagent, simply read across the page.

34 Journey
Aliso Viejo, CA 92656-3317 U.S.A.
Tel: (949) 425-1321 • Fax: (949) 425-1611
E-mail: tech@hrmail.com
Website: www.hamptonresearch.com

HAMPTON RESEARCH
Solutions for Crystal Growth

PEG/Ion 2 Screen™

HR2-098 Reagent Formulation

Tube	#	Salt	#	Buffer ◊	#	Polymer
E1	1.	0.1 M Sodium malonate pH 4.0	1.	None	1.	12% w/v Polyethylene glycol 3,350
E2	2.	0.2 M Sodium malonate pH 4.0	2.	None	2.	20% w/v Polyethylene glycol 3,350
E3	3.	0.1 M Sodium malonate pH 5.0	3.	None	3.	12% w/v Polyethylene glycol 3,350
E4	4.	0.2 M Sodium malonate pH 5.0	4.	None	4.	20% w/v Polyethylene glycol 3,350
E5	5.	0.1 M Sodium malonate pH 6.0	5.	None	5.	12% w/v Polyethylene glycol 3,350
E6	6.	0.2 M Sodium malonate pH 6.0	6.	None	6.	20% w/v Polyethylene glycol 3,350
E7	7.	0.1 M Sodium malonate pH 7.0	7.	None	7.	12% w/v Polyethylene glycol 3,350
E8	8.	0.2 M Sodium malonate pH 7.0	8.	None	8.	20% w/v Polyethylene glycol 3,350
E9	9.	4% v/v Tacsimate pH 4.0	9.	None	9.	12% w/v Polyethylene glycol 3,350
E10	10.	8% v/v Tacsimate pH 4.0	10.	None	10.	20% w/v Polyethylene glycol 3,350
E11	11.	4% v/v Tacsimate pH 5.0	11.	None	11.	12% w/v Polyethylene glycol 3,350
E12	12.	8% v/v Tacsimate pH 5.0	12.	None	12.	20% w/v Polyethylene glycol 3,350
F1	13.	4% v/v Tacsimate pH 6.0	13.	None	13.	12% w/v Polyethylene glycol 3,350
F2	14.	8% v/v Tacsimate pH 6.0	14.	None	14.	20% w/v Polyethylene glycol 3,350
F3	15.	4% v/v Tacsimate pH 7.0	15.	None	15.	12% w/v Polyethylene glycol 3,350
F4	16.	8% v/v Tacsimate pH 7.0	16.	None	16.	20% w/v Polyethylene glycol 3,350
F5	17.	4% v/v Tacsimate pH 8.0	17.	None	17.	12% w/v Polyethylene glycol 3,350
F6	18.	8% v/v Tacsimate pH 8.0	18.	None	18.	20% w/v Polyethylene glycol 3,350
F7	19.	0.1 M Succinic acid pH 7.0	19.	None	19.	12% w/v Polyethylene glycol 3,350
F8	20.	0.2 M Succinic acid pH 7.0	20.	None	20.	20% w/v Polyethylene glycol 3,350
F9	21.	0.1 M Ammonium citrate tribasic pH 7.0	21.	None	21.	12% w/v Polyethylene glycol 3,350
F10	22.	0.2 M Ammonium citrate tribasic pH 7.0	22.	None	22.	20% w/v Polyethylene glycol 3,350
F11	23.	0.1 M DL-Malic acid pH 7.0	23.	None	23.	12% w/v Polyethylene glycol 3,350
F12	24.	0.2 M DL-Malic acid pH 7.0	24.	None	24.	20% w/v Polyethylene glycol 3,350
G1	25.	0.1 M Sodium acetate trihydrate pH 7.0	25.	None	25.	12% w/v Polyethylene glycol 3,350
G2	26.	0.2 M Sodium acetate trihydrate pH 7.0	26.	None	26.	20% w/v Polyethylene glycol 3,350
G3	27.	0.1 M Sodium formate pH 7.0	27.	None	27.	12% w/v Polyethylene glycol 3,350
G4	28.	0.2 M Sodium formate pH 7.0	28.	None	28.	20% w/v Polyethylene glycol 3,350
G5	29.	0.1 M Ammonium tartrate dibasic pH 7.0	29.	None	29.	12% w/v Polyethylene glycol 3,350
G6	30.	0.2 M Ammonium tartrate dibasic pH 7.0	30.	None	30.	20% w/v Polyethylene glycol 3,350
G7	31.	2% v/v Tacsimate pH 4.0	31.	0.1 M Sodium acetate trihydrate pH 4.6	31.	16% w/v Polyethylene glycol 3,350
G8	32.	2% v/v Tacsimate pH 5.0	32.	0.1 M Sodium citrate tribasic dihydrate pH 5.6	32.	16% w/v Polyethylene glycol 3,350
G9	33.	2% v/v Tacsimate pH 6.0	33.	0.1 M BIS-TRIS pH 6.5	33.	20% w/v Polyethylene glycol 3,350
G10	34.	2% v/v Tacsimate pH 7.0	34.	0.1 M HEPES pH 7.5	34.	20% w/v Polyethylene glycol 3,350
G11	35.	2% v/v Tacsimate pH 8.0	35.	0.1 M Tris pH 8.5	35.	16% w/v Polyethylene glycol 3,350
G12	36.	None	36.	0.07 M Citric acid, 0.03 M BIS-TRIS propane / pH 3.4	36.	16% w/v Polyethylene glycol 3,350
H1	37.	None	37.	0.06 M Citric acid, 0.04 M BIS-TRIS propane / pH 4.1	37.	16% w/v Polyethylene glycol 3,350
H2	38.	None	38.	0.05 M Citric acid, 0.05 M BIS-TRIS propane / pH 5.0	38.	16% w/v Polyethylene glycol 3,350
H3	39.	None	39.	0.04 M Citric acid, 0.06 M BIS-TRIS propane / pH 6.4	39.	20% w/v Polyethylene glycol 3,350
H4	40.	None	40.	0.03 M Citric acid, 0.07 M BIS-TRIS propane / pH 7.6	40.	20% w/v Polyethylene glycol 3,350
H5	41.	None	41.	0.02 M Citric acid, 0.08 M BIS-TRIS propane / pH 8.8	41.	16% w/v Polyethylene glycol 3,350
H6	42.	0.02 M Calcium chloride dihydrate, 0.02 M Cadmium chloride hydrate, 0.02 M Cobalt(II) chloride hexahydrate	42.	None	42.	20% w/v Polyethylene glycol 3,350
H7	43.	0.01 M Magnesium chloride hexahydrate 0.005 M Nickel(II) chloride hexahydrate	43.	0.1 M HEPES sodium pH 7.0	43.	15% w/v Polyethylene glycol 3,350
H8	44.	0.02 M Zinc chloride	44.	None	44.	20% w/v Polyethylene glycol 3,350
H9	45.	0.15 M Cesium chloride	45.	None	45.	15% w/v Polyethylene glycol 3,350
H10	46.	0.2 M Sodium bromide	46.	None	46.	20% w/v Polyethylene glycol 3,350
H11	47.	1% w/v Tryptone	47.	0.05 M HEPES sodium pH 7.0	47.	12% w/v Polyethylene glycol 3,350
H12	48.	1% w/v Tryptone	48.	0.05 M HEPES sodium pH 7.0	48.	20% w/v Polyethylene glycol 3,350

◊ Buffer pH is that of a 1.0 M stock prior to dilution with other reagent components: pH with HCl or NaOH.

PEG/Ion 2 Screen contains forty-eight unique reagents. To determine the formulation of each reagent, simply read across the page.

34 Journey
Aliso Viejo, CA 92656-3317 U.S.A.
Tel: (949) 425-1321 • Fax: (949) 425-1611
E-mail: tech@hrmail.com
Website: www.hamptonresearch.com

HAMPTON RESEARCH
Solutions for Crystal Growth