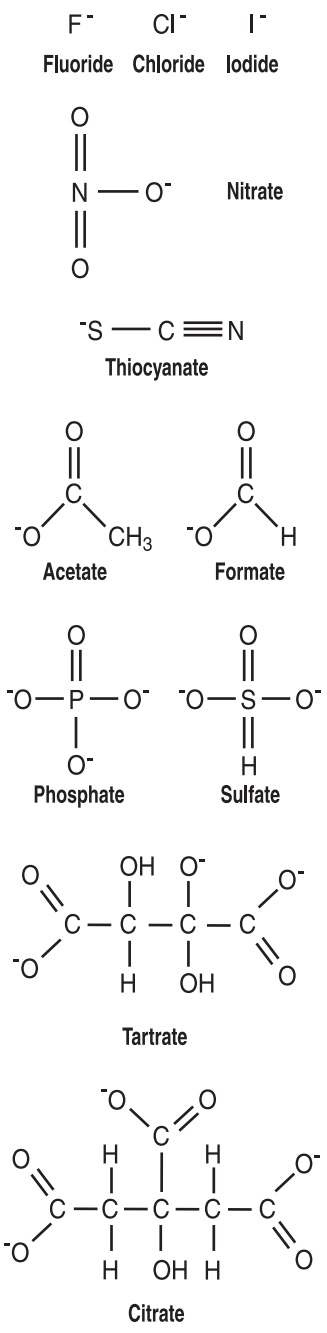
Well #	Salt	Well #	Polymer	Well #	pH ◊
1. (A1)	0.2 M Sodium fluoride	1. (A1)	20% w/v Polyethylene glycol 3,350	1. (A1)	7.3
2. (A2)	0.2 M Potassium fluoride	2. (A2)	20% w/v Polyethylene glycol 3,350	2. (A2)	7.3
3. (A3)	0.2 M Ammonium fluoride	3. (A3)	20% w/v Polyethylene glycol 3,350	3. (A3)	6.2
4. (A4)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



◊ Measured pH at 25 ° C

PEG/Ion HT contains ninety-six unique reagents. To determine the formulation of each reagent, simply read across the page.

HAMPTON RESEARCH
Solutions for Crystal Growth

Well #	Salt	Well #	Buffer ◊	Well #	Polymer
49. (E1)	0.1 M Sodium malonate pH 4.0	49. (E1)	None	49. (E1)	12% w/v Polyethylene glycol 3,350
50. (E2)	0.2 M Sodium malonate pH 4.0	50. (E2)	None	50. (E2)	20% w/v Polyethylene glycol 3,350
51. (E3)	0.1 M Sodium malonate pH 5.0	51. (E3)	None	51. (E3)	12% w/v Polyethylene glycol 3,350
52. (E4)	0.2 M Sodium malonate pH 5.0	52. (E4)	None	52. (E4)	20% w/v Polyethylene glycol 3,350
53. (E5)	0.1 M Sodium malonate pH 6.0	53. (E5)	None	53. (E5)	12% w/v Polyethylene glycol 3,350
54. (E6)	0.2 M Sodium malonate pH 6.0	54. (E6)	None	54. (E6)	20% w/v Polyethylene glycol 3,350
55. (E7)	0.1 M Sodium malonate pH 7.0	55. (E7)	None	55. (E7)	12% w/v Polyethylene glycol 3,350
56. (E8)	0.2 M Sodium malonate pH 7.0	56. (E8)	None	56. (E8)	20% w/v Polyethylene glycol 3,350
57. (E9)	4% v/v Tacsimate pH 4.0	57. (E9)	None	57. (E9)	12% w/v Polyethylene glycol 3,350
58. (E10)	8% v/v Tacsimate pH 4.0	58. (E10)	None	58. (E10)	20% w/v Polyethylene glycol 3,350
59. (E11)	4% v/v Tacsimate pH 5.0	59. (E11)	None	59. (E11)	12% w/v Polyethylene glycol 3,350
60. (E12)	8% v/v Tacsimate pH 5.0	60. (E12)	None	60. (E12)	20% w/v Polyethylene glycol 3,350
61. (F1)	4% v/v Tacsimate pH 6.0	61. (F1)	None	61. (F1)	12% w/v Polyethylene glycol 3,350
62. (F2)	8% v/v Tacsimate pH 6.0	62. (F2)	None	62. (F2)	20% w/v Polyethylene glycol 3,350
63. (F3)	4% v/v Tacsimate pH 7.0	63. (F3)	None	63. (F3)	12% w/v Polyethylene glycol 3,350
64. (F4)	8% v/v Tacsimate pH 7.0	64. (F4)	None	64. (F4)	20% w/v Polyethylene glycol 3,350
65. (F5)	4% v/v Tacsimate pH 8.0	65. (F5)	None	65. (F5)	12% w/v Polyethylene glycol 3,350
66. (F6)	8% v/v Tacsimate pH 8.0	66. (F6)	None	66. (F6)	20% w/v Polyethylene glycol 3,350
67. (F7)	0.1 M Succinic acid pH 7.0	67. (F7)	None	67. (F7)	12% w/v Polyethylene glycol 3,350
68. (F8)	0.2 M Succinic acid pH 7.0	68. (F8)	None	68. (F8)	20% w/v Polyethylene glycol 3,350
69. (F9)	0.1 M Ammonium citrate tribasic pH 7.0	69. (F9)	None	69. (F9)	12% w/v Polyethylene glycol 3,350
70. (F10)	0.2 M Ammonium citrate tribasic pH 7.0	70. (F10)	None	70. (F10)	20% w/v Polyethylene glycol 3,350
71. (F11)	0.1 M DL-Malic acid pH 7.0	71. (F11)	None	71. (F11)	12% w/v Polyethylene glycol 3,350
72. (F12)	0.2 M DL-Malic acid pH 7.0	72. (F12)	None	72. (F12)	20% w/v Polyethylene glycol 3,350
73. (G1)	0.1 M Sodium acetate trihydrate pH 7.0	73. (G1)	None	73. (G1)	12% w/v Polyethylene glycol 3,350
74. (G2)	0.2 M Sodium acetate trihydrate pH 7.0	74. (G2)	None	74. (G2)	20% w/v Polyethylene glycol 3,350
75. (G3)	0.1 M Sodium formate pH 7.0	75. (G3)	None	75. (G3)	12% w/v Polyethylene glycol 3,350
76. (G4)	0.2 M Sodium formate pH 7.0	76. (G4)	None	76. (G4)	20% w/v Polyethylene glycol 3,350
77. (G5)	0.1 M Ammonium tartrate dibasic pH 7.0	77. (G5)	None	77. (G5)	12% w/v Polyethylene glycol 3,350
78. (G6)	0.2 M Ammonium tartrate dibasic pH 7.0	78. (G6)	None	78. (G6)	20% w/v Polyethylene glycol 3,350
79. (G7)	2% v/v Tacsimate pH 4.0	79. (G7)	0.1 M Sodium acetate trihydrate pH 4.6	79. (G7)	16% w/v Polyethylene glycol 3,350
80. (G8)	2% v/v Tacsimate pH 5.0	80. (G8)	0.1 M Sodium citrate tribasic dihydrate pH 5.6	80. (G8)	16% w/v Polyethylene glycol 3,350
81. (G9)	2% v/v Tacsimate pH 6.0	81. (G9)	0.1 M BIS-TRIS pH 6.5	81. (G9)	20% w/v Polyethylene glycol 3,350
82. (G10)	2% v/v Tacsimate pH 7.0	82. (G10)	0.1 M HEPES pH 7.5	82. (G10)	20% w/v Polyethylene glycol 3,350
83. (G11)	2% v/v Tacsimate pH 8.0	83. (G11)	0.1 M Tris pH 8.5	83. (G11)	16% w/v Polyethylene glycol 3,350
84. (G12)	None	84. (G12)	0.07 M Citric acid, 0.03 M BIS-TRIS propane / pH 3.4	84. (G12)	16% w/v Polyethylene glycol 3,350
85. (H1)	None	85. (H1)	0.06 M Citric acid, 0.04 M BIS-TRIS propane / pH 4.1	85. (H1)	16% w/v Polyethylene glycol 3,350
86. (H2)	None	86. (H2)	0.05 M Citric acid, 0.05 M BIS-TRIS propane / pH 5.0	86. (H2)	16% w/v Polyethylene glycol 3,350
87. (H3)	None	87. (H3)	0.04 M Citric acid, 0.06 M BIS-TRIS propane / pH 6.4	87. (H3)	20% w/v Polyethylene glycol 3,350
88. (H4)	None	88. (H4)	0.03 M Citric acid, 0.07 M BIS-TRIS propane / pH 7.6	88. (H4)	20% w/v Polyethylene glycol 3,350
89. (H5)	None	89. (H5)	0.02 M Citric acid, 0.08 M BIS-TRIS propane / pH 8.8	89. (H5)	16% w/v Polyethylene glycol 3,350
90. (H6)	0.02 M Calcium chloride dihydrate, 0.02 M Cadmium chloride hydrate, 0.02 M Cobalt(II) chloride hexahydrate	90. (H6)	None	90. (H6)	20% w/v Polyethylene glycol 3,350
91. (H7)	0.01 M Magnesium chloride hexahydrate 0.005 M Nickel(II) chloride hexahydrate	91. (H7)	0.1 M HEPES sodium pH 7.0	91. (H7)	15% w/v Polyethylene glycol 3,350
92. (H8)	0.02 M Zinc chloride	92. (H8)	None	92. (H8)	20% w/v Polyethylene glycol 3,350
93. (H9)	0.15 M Cesium chloride	93. (H9)	None	93. (H9)	15% w/v Polyethylene glycol 3,350
94. (H10)	0.2 M Sodium bromide	94. (H10)	None	94. (H10)	20% w/v Polyethylene glycol 3,350
95. (H11)	1% w/v Tryptone	95. (H11)	0.05 M HEPES sodium pH 7.0	95. (H11)	12% w/v Polyethylene glycol 3,350
96. (H12)	1% w/v Tryptone	96. (H12)	0.05 M HEPES sodium pH 7.0	96. (H12)	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 HT contains ninety-six unique reagents. To determine the formulation of each reagent, simply read across the page.

34 Journey
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