

Well #	Buffer ◇	Well #	Polymer
1. (A1)	0.1 M Citric acid pH 3.5	1. (A1)	34% v/v Polyethylene glycol 200
2. (A2)	0.1 M Sodium citrate tribasic dihydrate pH 5.5	2. (A2)	38% v/v Polyethylene glycol 200
3. (A3)	0.1 M HEPES pH 7.5	3. (A3)	42% v/v Polyethylene glycol 200
4. (A4)	0.1 M Sodium acetate trihydrate pH 4.5	4. (A4)	30% v/v Polyethylene glycol 300
5. (A5)	0.1 M BIS-TRIS pH 6.5	5. (A5)	25% v/v Polyethylene glycol 300
6. (A6)	0.1 M BICINE pH 8.5	6. (A6)	20% v/v Polyethylene glycol 300
7. (A7)	0.1 M Sodium acetate trihydrate pH 4.0	7. (A7)	15% v/v Polyethylene glycol 400
8. (A8)	0.1 M MES monohydrate pH 6.0	8. (A8)	22% v/v Polyethylene glycol 400
9. (A9)	0.1 M Tris pH 8.0	9. (A9)	30% v/v Polyethylene glycol 400
10. (A10)	0.1 M Sodium citrate tribasic dihydrate pH 5.0	10. (A10)	30% v/v Polyethylene glycol monomethyl ether 550
11. (A11)	0.1 M Imidazole pH 7.0	11. (A11)	25% v/v Polyethylene glycol monomethyl ether 550
12. (A12)	0.1 M BIS-TRIS propane pH 9.0	12. (A12)	20% v/v Polyethylene glycol monomethyl ether 550
13. (B1)	0.1 M Sodium acetate trihydrate pH 4.0	13. (B1)	10% v/v Jeffamine® M-600® pH 7.0
14. (B2)	0.1 M MES monohydrate pH 6.0	14. (B2)	20% v/v Jeffamine® M-600® pH 7.0
15. (B3)	0.1 M Tris pH 8.0	15. (B3)	30% v/v Jeffamine® M-600® pH 7.0
16. (B4)	0.1 M Citric acid pH 3.5	16. (B4)	14% w/v Polyethylene glycol 1,000
17. (B5)	0.1 M Sodium citrate tribasic dihydrate pH 5.5	17. (B5)	22% w/v Polyethylene glycol 1,000
18. (B6)	0.1 M HEPES pH 7.5	18. (B6)	30% w/v Polyethylene glycol 1,000
19. (B7)	0.1 M Sodium acetate trihydrate pH 4.5	19. (B7)	30% w/v Polyethylene glycol 1,500
20. (B8)	0.1 M BIS-TRIS pH 6.5	20. (B8)	20% w/v Polyethylene glycol 1,500
21. (B9)	0.1 M BICINE pH 8.5	21. (B9)	15% w/v Polyethylene glycol 1,500
22. (B10)	0.1 M Sodium acetate trihydrate pH 4.0	22. (B10)	10% w/v Polyethylene glycol monomethyl ether 2,000
23. (B11)	0.1 M MES monohydrate pH 6.0	23. (B11)	20% w/v Polyethylene glycol monomethyl ether 2,000
24. (B12)	0.1 M Tris pH 8.0	24. (B12)	30% w/v Polyethylene glycol monomethyl ether 2,000
25. (C1)	0.1 M Sodium citrate tribasic dihydrate pH 5.0	25. (C1)	30% v/v Jeffamine® ED-2001 pH 7.0
26. (C2)	0.1 M Imidazole pH 7.0	26. (C2)	20% v/v Jeffamine® ED-2001 pH 7.0
27. (C3)	0.1 M BIS-TRIS propane pH 9.0	27. (C3)	10% v/v Jeffamine® ED-2001 pH 7.0
28. (C4)	0.1 M Citric acid pH 3.5	28. (C4)	25% w/v Polyethylene glycol 3,350
29. (C5)	0.1 M Sodium citrate tribasic dihydrate pH 5.5	29. (C5)	18% w/v Polyethylene glycol 3,350
30. (C6)	0.1 M HEPES pH 7.5	30. (C6)	12% w/v Polyethylene glycol 3,350
31. (C7)	0.1 M Sodium acetate trihydrate pH 4.0	31. (C7)	10% w/v Polyethylene glycol 4,000
32. (C8)	0.1 M MES monohydrate pH 6.0	32. (C8)	14% w/v Polyethylene glycol 4,000
33. (C9)	0.1 M Tris pH 8.0	33. (C9)	28% w/v Polyethylene glycol 4,000
34. (C10)	0.1 M Sodium acetate trihydrate pH 4.5	34. (C10)	30% w/v Polyethylene glycol monomethyl ether 5,000
35. (C11)	0.1 M BIS-TRIS pH 6.5	35. (C11)	20% w/v Polyethylene glycol monomethyl ether 5,000
36. (C12)	0.1 M BICINE pH 8.5	36. (C12)	8% w/v Polyethylene glycol monomethyl ether 5,000
37. (D1)	0.1 M Sodium citrate tribasic dihydrate pH 5.0	37. (D1)	10% w/v Polyethylene glycol 6,000
38. (D2)	0.1 M Imidazole pH 7.0	38. (D2)	20% w/v Polyethylene glycol 6,000
39. (D3)	0.1 M BIS-TRIS propane pH 9.0	39. (D3)	30% w/v Polyethylene glycol 6,000
40. (D4)	0.1 M Citric acid pH 3.5	40. (D4)	28% w/v Polyethylene glycol 8,000
41. (D5)	0.1 M Sodium citrate tribasic dihydrate pH 5.5	41. (D5)	16% w/v Polyethylene glycol 8,000
42. (D6)	0.1 M HEPES pH 7.5	42. (D6)	4% w/v Polyethylene glycol 8,000
43. (D7)	0.1 M Sodium acetate trihydrate pH 4.5	43. (D7)	10% w/v Polyethylene glycol 10,000
44. (D8)	0.1 M BIS-TRIS pH 6.5	44. (D8)	16% w/v Polyethylene glycol 10,000
45. (D9)	0.1 M BICINE pH 8.5	45. (D9)	20% w/v Polyethylene glycol 10,000
46. (D10)	0.1 M Sodium citrate tribasic dihydrate pH 5.0	46. (D10)	18% w/v Polyethylene glycol 20,000
47. (D11)	0.1 M Imidazole pH 7.0	47. (D11)	12% w/v Polyethylene glycol 20,000
48. (D12)	0.1 M BIS-TRIS propane pH 9.0	48. (D12)	8% w/v Polyethylene glycol 20,000

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

*PEGRx™ 1 (Deep Well Block) contains forty-eight unique reagents beginning at position A1. To determine the formulation of each reagent, simply read across the page.*

Well #	Additive / Salt / Volatile Organic / Polyol	Well #	Buffer ◇	Well #	Polymer
49. (E1)	0.8 M Lithium sulfate monohydrate	49. (E1)	0.1 M Sodium acetate trihydrate pH 4.0	49. (E1)	4% v/v Polyethylene glycol 200
50. (E2)	0.2 M Lithium sulfate monohydrate	50. (E2)	0.1 M Sodium citrate tribasic dihydrate pH 5.0	50. (E2)	26% v/v Polyethylene glycol 200
51. (E3)	0.05 M Calcium chloride dihydrate	51. (E3)	0.1 M MES monohydrate pH 6.0	51. (E3)	45% v/v Polyethylene glycol 200
52. (E4)	28% v/v 2-Propanol	52. (E4)	0.1 M BIS-TRIS pH 6.5	52. (E4)	3% v/v Polyethylene glycol 200
53. (E5)	20% v/v Tacsimate pH 7.0	53. (E5)	0.1 M HEPES pH 7.5	53. (E5)	2% v/v Polyethylene glycol 200
54. (E6)	10% v/v 2-Propanol	54. (E6)	0.1 M Sodium citrate tribasic dihydrate pH 5.0	54. (E6)	26% v/v Polyethylene glycol 400
55. (E7)	0.2 M Ammonium acetate	55. (E7)	0.1 M Sodium citrate tribasic dihydrate pH 5.5	55. (E7)	24% v/v Polyethylene glycol 400
56. (E8)	0.2 M Ammonium sulfate	56. (E8)	0.1 M BIS-TRIS pH 6.5	56. (E8)	18% v/v Polyethylene glycol 400
57. (E9)	0.19 mM CYMAL®-7	57. (E9)	0.1 M HEPES pH 7.5	57. (E9)	40% v/v Polyethylene glycol 400
58. (E10)	6% v/v 2-Propanol	58. (E10)	0.1 M Sodium acetate trihydrate pH 4.5	58. (E10)	26% v/v Polyethylene glycol monomethyl ether 550
59. (E11)	1.8 M Ammonium sulfate	59. (E11)	0.1 M BIS-TRIS pH 6.5	59. (E11)	2% v/v Polyethylene glycol monomethyl ether 550
60. (E12)	0.15 M DL-Malic acid pH 7.0	60. (E12)	0.1 M Imidazole pH 7.0	60. (E12)	22% v/v Polyethylene glycol monomethyl ether 550
61. (F1)	0.1 M Succinic acid pH 7.0	61. (F1)	0.1 M BICINE pH 8.5	61. (F1)	30% v/v Polyethylene glycol monomethyl ether 550
62. (F2)	0.1 M Lithium sulfate monohydrate	62. (F2)	0.1 M Sodium citrate tribasic dihydrate pH 5.5	62. (F2)	20% w/v Polyethylene glycol 1,000
63. (F3)	0.1 M Sodium malonate pH 8.0	63. (F3)	0.1 M Tris pH 8.0	63. (F3)	30% w/v Polyethylene glycol 1,000
64. (F4)	4% v/v (+/-)-2-Methyl-2,4-pentanediol	64. (F4)	0.1 M Citric acid pH 3.5	64. (F4)	20% w/v Polyethylene glycol 1,500
65. (F5)	0.2 M L-Proline	65. (F5)	0.1 M HEPES pH 7.5	65. (F5)	24% w/v Polyethylene glycol 1,500
66. (F6)	10% v/v 2-Propanol	66. (F6)	0.1 M BICINE pH 8.5	66. (F6)	30% w/v Polyethylene glycol 1,500
67. (F7)	0.1 M Sodium chloride	67. (F7)	0.1 M BIS-TRIS propane pH 9.0	67. (F7)	25% w/v Polyethylene glycol 1,500
68. (F8)	0.02 M Nickel(II) chloride hexahydrate, 0.02 M Magnesium chloride hexahydrate, 0.02 M Cadmium chloride hydrate	68. (F8)	0.1 M Sodium acetate trihydrate pH 4.5	68. (F8)	24% w/v Polyethylene glycol monomethyl ether 2,000
69. (F9)	20% v/v 2-Propanol	69. (F9)	0.1 M MES monohydrate pH 6.0	69. (F9)	20% w/v Polyethylene glycol monomethyl ether 2,000
70. (F10)	0.2 M Ammonium citrate tribasic pH 7.0	70. (F10)	0.1 M Imidazole pH 7.0	70. (F10)	20% w/v Polyethylene glycol monomethyl ether 2,000
71. (F11)	4.0 M Potassium formate	71. (F11)	0.1 M BIS-TRIS propane pH 9.0	71. (F11)	2% v/v Polyethylene glycol monomethyl ether 2,000
72. (F12)	50% v/v Tacsimate pH 4.0	72. (F12)	0.1 M Sodium acetate trihydrate pH 4.5	72. (F12)	1% v/v Polyethylene glycol 3,350
73. (G1)	0.10% w/v n-Octyl-β-D-glucoside	73. (G1)	0.1 M Sodium citrate tribasic dihydrate pH 5.5	73. (G1)	22% w/v Polyethylene glycol 3,350
74. (G2)	2% v/v Tacsimate pH 7.0, 5% v/v 2-Propanol	74. (G2)	0.1 M Imidazole pH 7.0	74. (G2)	8% w/v Polyethylene glycol 3,350
75. (G3)	2% v/v 1,4-Dioxane	75. (G3)	0.1 M Tris pH 8.0	75. (G3)	15% w/v Polyethylene glycol 3,350
76. (G4)	18% v/v 2-Propanol	76. (G4)	0.1 M Sodium citrate tribasic dihydrate pH 5.5	76. (G4)	20% w/v Polyethylene glycol 4,000
77. (G5)	6% v/v Tacsimate pH 6.0	77. (G5)	0.1 M MES monohydrate pH 6.0	77. (G5)	25% w/v Polyethylene glycol 4,000
78. (G6)	0.2 M Magnesium formate dihydrate	78. (G6)	0.1 M Sodium acetate trihydrate pH 4.0	78. (G6)	18% w/v Polyethylene glycol monomethyl ether 5,000
79. (G7)	2% v/v Polyethylene glycol 400	79. (G7)	0.1 M Imidazole pH 7.0	79. (G7)	24% w/v Polyethylene glycol monomethyl ether 5,000
80. (G8)	0.2 M Sodium formate	80. (G8)	0.1 M BICINE pH 8.5	80. (G8)	20% w/v Polyethylene glycol monomethyl ether 5,000
81. (G9)	4% v/v 2-Propanol	81. (G9)	0.1 M BIS-TRIS propane pH 9.0	81. (G9)	20% w/v Polyethylene glycol monomethyl ether 5,000
82. (G10)	6% v/v Ethylene glycol	82. (G10)	0.1 M Citric acid pH 3.5	82. (G10)	10% w/v Polyethylene glycol 6,000
83. (G11)	0.15 M Lithium sulfate monohydrate	83. (G11)	0.1 M Citric acid pH 3.5	83. (G11)	18% w/v Polyethylene glycol 6,000
84. (G12)	10% v/v 2-Propanol	84. (G12)	0.1 M Sodium acetate trihydrate pH 4.0	84. (G12)	22% w/v Polyethylene glycol 6,000
85. (H1)	0.2 M Sodium chloride	85. (H1)	0.1 M Sodium acetate trihydrate pH 4.0	85. (H1)	22% w/v Polyethylene glycol 8,000
86. (H2)	20% v/v 2-Propanol	86. (H2)	0.1 M Tris pH 8.0	86. (H2)	5% w/v Polyethylene glycol 8,000
87. (H3)	10% v/v Polyethylene glycol 200	87. (H3)	0.1 M BIS-TRIS propane pH 9.0	87. (H3)	18% w/v Polyethylene glycol 8,000
88. (H4)	15% v/v 2-Propanol	88. (H4)	0.1 M Sodium citrate tribasic dihydrate pH 5.0	88. (H4)	10% w/v Polyethylene glycol 10,000
89. (H5)	0.4 M Sodium malonate pH 6.0	89. (H5)	0.1 M MES monohydrate pH 6.0	89. (H5)	0.5% w/v Polyethylene glycol 10,000
90. (H6)	0.2 M Potassium sodium tartrate tetrahydrate	90. (H6)	0.1 M BIS-TRIS pH 6.5	90. (H6)	10% w/v Polyethylene glycol 10,000
91. (H7)	5% v/v (+/-)-2-Methyl-2,4-pentanediol	91. (H7)	0.1 M HEPES pH 7.5	91. (H7)	10% w/v Polyethylene glycol 10,000
92. (H8)	0.2 M Ammonium acetate	92. (H8)	0.1 M Tris pH 8.0	92. (H8)	16% w/v Polyethylene glycol 10,000
93. (H9)	5% v/v 2-Propanol	93. (H9)	0.1 M Citric acid pH 3.5	93. (H9)	6% v/v Polyethylene glycol 20,000
94. (H10)	1.0 M Sodium malonate pH 5.0	94. (H10)	0.1 M Sodium acetate trihydrate pH 4.5	94. (H10)	2% v/v Polyethylene glycol 20,000
95. (H11)	0.2 M Magnesium chloride hexahydrate	95. (H11)	0.1 M Sodium citrate tribasic dihydrate pH 5.0	95. (H11)	10% w/v Polyethylene glycol 20,000
96. (H12)	3% w/v Dextran sulfate sodium salt	96. (H12)	0.1 M BICINE pH 8.5	96. (H12)	15% w/v Polyethylene glycol 20,000

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**HAMPTON**  
RESEARCH

Solutions for Crystal Growth