Sample: _____ Sample Concentration: _____

Sample Buffer: _____ Date: _____

Reservoir Volume: _____ Temperature: _____

Drop Volume: Total _____ µl Sample _____ µl Reservoir _____ µl Additive _____ µl

1 Clear Drop
2 Phase Separation
3 Regular Granular Precipitate
4 Birefringent Precipitate or Microcrystals
5 Posettes or Spherulites
6 Needles (1D Growth)
7 Plates (2D Growth)
8 Single Crystals (3D Growth < 0.2 mm)
9 Single Crystals (3D Growth > 0.2 mm)

HAMPTON RESEARCH
Solutions for Crystal Growth

34 Journey
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Crystal Screen HT™ - HR2-130 Scoring Sheet		Date:	Date:	Date:
1. (A1)	0.02 M Calcium chloride dihydrate, 0.1 M Sodium acetate trihydrate pH 4.6, 30% v/v (+/-)-2-Methyl-2,4-pentanediol			
2. (A2)	0.4 M Potassium sodium tartrate tetrahydrate			
3. (A3)	0.4 M Ammonium phosphate monobasic			
4. (A4)	0.1 M TRIS hydrochloride pH 8.5, 2.0 M Ammonium sulfate			
5. (A5)	0.2 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 30% v/v (+/-)-2-Methyl-2,4-pentanediol			
6. (A6)	0.2 M Magnesium chloride hexahydrate, 0.1 M TRIS hydrochloride pH 8.5, 30% w/v Polyethylene glycol 4,000			
7. (A7)	0.1 M Sodium cacodylate trihydrate pH 6.5, 1.4 M Sodium acetate trihydrate			
8. (A8)	0.2 M Sodium citrate tribasic dihydrate, 0.1 M Sodium cacodylate trihydrate pH 6.5, 30% v/v 2-Propanol			
9. (A9)	0.2 M Ammonium acetate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 30% w/v Polyethylene glycol 4,000			
10. (A10)	0.2 M Ammonium acetate, 0.1 M Sodium acetate trihydrate pH 4.6, 30% w/v Polyethylene glycol 4,000			
11. (A11)	0.1 M Sodium citrate tribasic dihydrate pH 5.6, 1.0 M Ammonium phosphate monobasic			
12. (A12)	0.2 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 30% v/v 2-Propanol			
13. (B1)	0.2 M Sodium citrate tribasic dihydrate, 0.1 M TRIS hydrochloride pH 8.5, 30% v/v Polyethylene glycol 400			
14. (B2)	0.2 M Calcium chloride dihydrate, 0.1 M HEPES sodium pH 7.5, 28% v/v Polyethylene glycol 400			
15. (B3)	0.2 M Ammonium sulfate, 0.1 M Sodium cacodylate trihydrate pH 6.5, 30% w/v Polyethylene glycol 8,000			
16. (B4)	0.1 M HEPES sodium pH 7.5, 1.5 M Lithium sulfate monohydrate			
17. (B5)	0.2 M Lithium sulfate monohydrate, 0.1 M TRIS hydrochloride pH 8.5, 30% w/v Polyethylene glycol 4,000			
18. (B6)	0.2 M Magnesium acetate tetrahydrate, 0.1 M Sodium cacodylate trihydrate pH 6.5, 20% w/v Polyethylene glycol 8,000			
19. (B7)	0.2 M Ammonium acetate, 0.1 M TRIS hydrochloride pH 8.5, 30% v/v 2-Propanol			
20. (B8)	0.2 M Ammonium sulfate, 0.1 M Sodium acetate trihydrate pH 4.6, 25% w/v Polyethylene glycol 4,000			
21. (B9)	0.2 M Magnesium acetate tetrahydrate, 0.1 M Sodium cacodylate trihydrate pH 6.5, 30% v/v (+/-)-2-Methyl-2,4-pentanediol			
22. (B10)	0.2 M Sodium acetate trihydrate, 0.1 M TRIS hydrochloride pH 8.5, 30% w/v Polyethylene glycol 4,000			
23. (B11)	0.2 M Magnesium chloride hexahydrate, 0.1 M HEPES sodium pH 7.5, 30% v/v Polyethylene glycol 400			
24. (B12)	0.2 M Calcium chloride dihydrate, 0.1 M Sodium acetate trihydrate pH 4.6, 20% v/v 2-Propanol			
25. (C1)	0.1 M Imidazole pH 6.5, 1.0 M Sodium acetate trihydrate			
26. (C2)	0.2 M Ammonium acetate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 30% v/v (+/-)-2-Methyl-2,4-pentanediol			
27. (C3)	0.2 M Sodium citrate tribasic dihydrate, 0.1 M HEPES sodium pH 7.5, 20% v/v 2-Propanol			
28. (C4)	0.2 M Sodium acetate trihydrate, 0.1 M Sodium cacodylate trihydrate pH 6.5, 30% w/v Polyethylene glycol 8,000			
29. (C5)	0.1 M HEPES sodium pH 7.5, 0.8 M Potassium sodium tartrate tetrahydrate			
30. (C6)	0.2 M Ammonium sulfate, 30% w/v Polyethylene glycol 8,000			
31. (C7)	0.2 M Ammonium sulfate, 30% w/v Polyethylene glycol 4,000			
32. (C8)	2.0 M Ammonium sulfate			
33. (C9)	4.0 M Sodium formate			
34. (C10)	0.1 M Sodium acetate trihydrate pH 4.6, 2.0 M Sodium formate			
35. (C11)	0.1 M HEPES sodium pH 7.5, 0.8 M Sodium phosphate monobasic monohydrate, 0.8 M Potassium phosphate monobasic			
36. (C12)	0.1 M TRIS hydrochloride pH 8.5, 8% w/v Polyethylene glycol 8,000			
37. (D1)	0.1 M Sodium acetate trihydrate pH 4.6, 8% w/v Polyethylene glycol 4,000			
38. (D2)	0.1 M HEPES sodium pH 7.5, 1.4 M Sodium citrate tribasic dihydrate			
39. (D3)	0.1 M HEPES sodium pH 7.5, 2% v/v Polyethylene glycol 400, 2.0 M Ammonium sulfate			
40. (D4)	0.1 M Sodium citrate tribasic dihydrate pH 5.6, 20% v/v 2-Propanol, 20% w/v Polyethylene glycol 4,000			
41. (D5)	0.1 M HEPES sodium pH 7.5, 10% v/v 2-Propanol, 20% w/v Polyethylene glycol 4,000			
42. (D6)	0.05 M Potassium phosphate monobasic, 20% w/v Polyethylene glycol 8,000			
43. (D7)	30% w/v Polyethylene glycol 1,500			
44. (D8)	0.2 M Magnesium formate dihydrate			
45. (D9)	0.2 M Zinc acetate dihydrate, 0.1 M Sodium cacodylate trihydrate pH 6.5, 18% w/v Polyethylene glycol 8,000			
46. (D10)	0.2 M Calcium acetate hydrate, 0.1 M Sodium cacodylate trihydrate pH 6.5 , 18% w/v Polyethylene glycol 8,000			
47. (D11)	0.1 M Sodium acetate trihydrate pH 4.6, 2.0 M Ammonium sulfate			
48. (D12)	0.1 M TRIS hydrochloride pH 8.5, 2.0 M Ammonium phosphate monobasic			

Sample: _____ Sample Concentration: _____

Sample Buffer: _____ Date: _____

Reservoir Volume: _____ Temperature: _____

Drop Volume: Total _____ µl Sample _____ µl Reservoir _____ µl Additive _____ µl

1 Clear Drop
2 Phase Separation
3 Regular Granular Precipitate
4 Birefringent Precipitate or Microcrystals
5 Posettes or Spherulites
6 Needles (1D Growth)
7 Plates (2D Growth)
8 Single Crystals (3D Growth < 0.2 mm)
9 Single Crystals (3D Growth > 0.2 mm)

Crystal Screen HT™ - HR2-130 Scoring Sheet		Date:	Date:	Date:
49. (E1)	2.0 M Sodium chloride, 10% w/v Polyethylene glycol 6,000			
50. (E2)	0.5 M Sodium chloride, 0.01 M Magnesium chloride hexahydrate, 0.01 M Hexadecyltrimethylammonium bromide			
51. (E3)	25% v/v Ethylene glycol			
52. (E4)	35% v/v 1,4-Dioxane			
53. (E5)	2.0 M Ammonium sulfate, 5% v/v 2-Propanol			
54. (E6)	1.0 M Imidazole pH 7.0			
55. (E7)	10% w/v Polyethylene glycol 1,000, 10% w/v Polyethylene glycol 8,000			
56. (E8)	1.5 M Sodium chloride, 10% v/v Ethanol			
57. (E9)	0.1 M Sodium acetate trihydrate pH 4.6, 2.0 M Sodium chloride			
58. (E10)	0.2 M Sodium chloride, 0.1 M Sodium acetate trihydrate pH 4.6, 30% v/v (+/-)-2-Methyl-2,4-pentanediol			
59. (E11)	0.01 M Cobalt(II) chloride hexahydrate, 0.1 M Sodium acetate trihydrate pH 4.6, 1.0 M 1,6-Hexanediol			
60. (E12)	0.1 M Cadmium chloride hydrate, 0.1 M Sodium acetate trihydrate pH 4.6, 30% v/v Polyethylene glycol 400			
61. (F1)	0.2 M Ammonium sulfate, 0.1 M Sodium acetate trihydrate pH 4.6, 30% w/v Polyethylene glycol monomethyl ether 2,000			
62. (F2)	0.2 M Potassium sodium tartrate tetrahydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 2.0 M Ammonium sulfate			
63. (F3)	0.5 M Ammonium sulfate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 1.0 M Lithium sulfate monohydrate			
64. (F4)	0.5 M Sodium chloride, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 2% v/v Ethylene imine polymer			
65. (F5)	0.1 M Sodium citrate tribasic dihydrate pH 5.6, 35% v/v tert-Butanol			
66. (F6)	0.01 M Iron(III) chloride hexahydrate, 0.1 M Sodium citrate tribasic dihydrate pH 5.6, 10% v/v Jeffamine® M-600®			
67. (F7)	0.1 M Sodium citrate tribasic dihydrate pH 5.6, 2.5 M 1,6-Hexanediol			
68. (F8)	0.1 M MES monohydrate pH 6.5, 1.6 M Magnesium sulfate heptahydrate			
69. (F9)	0.1 M Sodium phosphate monobasic monohydrate, 0.1 M Potassium phosphate monobasic, 0.1 M MES monohydrate pH 6.5,			
	2.0 M Sodium chloride			
70. (F10)	0.1 M MES monohydrate pH 6.5, 12% w/v Polyethylene glycol 20,000			
71. (F11)	1.6 M Ammonium sulfate, 0.1 M MES monohydrate pH 6.5, 10% v/v 1,4-Dioxane			
72. (F12)	0.05 M Cesium chloride, 0.1 M MES monohydrate pH 6.5, 30% v/v Jeffamine® M-600®			
73. (G1)	0.01 M Cobalt(II) chloride hexahydrate, 0.1 M MES monohydrate pH 6.5, 1.8 M Ammonium sulfate			
74. (G2)	0.2 M Ammonium sulfate, 0.1 M MES monohydrate pH 6.5, 30% w/v Polyethylene glycol monomethyl ether 5,000			
75. (G3)	0.01 M Zinc sulfate heptahydrate, 0.1 M MES monohydrate pH 6.5, 25% v/v Polyethylene glycol monomethyl ether 550			
76. (G4)	1.6 M Sodium citrate tribasic dihydrate pH 6.5			
77. (G5)	0.5 M Ammonium sulfate, 0.1 M HEPES pH 7.5, 30% v/v (+/-)-2-Methyl-2,4-pentanediol			
78. (G6)	0.1 M HEPES pH 7.5, 10% w/v Polyethylene glycol 6,000, 5% v/v (+/-)-2-Methyl-2,4-pentanediol			
79. (G7)	0.1 M HEPES pH 7.5, 20% v/v Jeffamine® M-600®			
80. (G8)	0.1 M Sodium chloride, 0.1 M HEPES pH 7.5, 1.6 M Ammonium sulfate			
81. (G9)	0.1 M HEPES pH 7.5, 2.0 M Ammonium formate			
82. (G10)	0.05 M Cadmium sulfate hydrate, 0.1 M HEPES pH 7.5, 1.0 M Sodium acetate trihydrate			
83. (G11)	0.1 M HEPES pH 7.5, 70% v/v (+/-)-2-Methyl-2,4-pentanediol			
84. (G12)	0.1 M HEPES pH 7.5, 4.3 M Sodium chloride			
85. (H1)	0.1 M HEPES pH 7.5, 10% w/v Polyethylene glycol 8,000, 8% v/v Ethylene glycol			
86. (H2)	0.1 M HEPES pH 7.5, 20% w/v Polyethylene glycol 10,000			
87. (H3)	0.2 M Magnesium chloride hexahydrate, 0.1 M Tris pH 8.5, 3.4 M 1,6-Hexanediol			
88. (H4)	0.1 M Tris pH 8.5, 25% v/v tert-Butanol			
89. (H5)	0.01 M Nickel(II) chloride hexahydrate, 0.1 M Tris pH 8.5, 1.0 M Lithium sulfate monohydrate			
90. (H6)	1.5 M Ammonium sulfate, 0.1 M Tris pH 8.5, 12% v/v Glycerol			
91. (H7)	0.2 M Ammonium phosphate monobasic, 0.1 M Tris pH 8.5, 50% v/v (+/-)-2-Methyl-2,4-pentanediol			
92. (H8)	0.1 M Tris pH 8.5, 20% v/v Ethanol			
93. (H9)	0.01 M Nickel(II) chloride hexahydrate, 0.1 M Tris pH 8.5, 20% w/v Polyethylene glycol monomethyl ether 2,000			
94. (H10)	0.1 M Sodium chloride, 0.1 M BICINE pH 9.0, 20% v/v Polyethylene glycol monomethyl ether 550			
95. (H11)	0.1 M BICINE pH 9.0, 2.0 M Magnesium chloride hexahydrate			
96. (H12)	0.1 M BICINE pH 9.0, 2% v/v 1,4-Dioxane, 10% w/v Polyethylene glycol 20,000			

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