

Sample: _____ Sample Concentration: _____
 Sample Buffer: _____ Date: _____
 Reservoir Volume: _____ Temperature: _____
 Drop Volume: Total _____ μ l Sample _____ μ l Reservoir _____ μ l Additive _____ μ l

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)

Additive Screen™ - HR2-428 Scoring Sheet

		Date:	Date:	Date:	Date:
1. (A1)	0.1 M Barium chloride dihydrate	Multivalent			
2. (A2)	0.1 M Cadmium chloride hydrate	Multivalent			
3. (A3)	0.1 M Calcium chloride dihydrate	Multivalent			
4. (A4)	0.1 M Cobalt(II) chloride hexahydrate	Multivalent			
5. (A5)	0.1 M Copper(II) chloride dihydrate	Multivalent			
6. (A6)	0.1 M Magnesium chloride hexahydrate	Multivalent			
7. (A7)	0.1 M Manganese(II) chloride tetrahydrate	Multivalent			
8. (A8)	0.1 M Strontium chloride hexahydrate	Multivalent			
9. (A9)	0.1 M Yttrium(III) chloride hexahydrate	Multivalent			
10. (A10)	0.1 M Zinc chloride	Multivalent			
11. (A11)	0.1 M Iron(III) chloride hexahydrate	Multivalent			
12. (A12)	0.1 M Nickel(II) chloride hexahydrate	Multivalent			
13. (B1)	0.1 M Chromium(III) chloride hexahydrate	Multivalent			
14. (B2)	0.1 M Praseodymium(III) acetate hydrate	Multivalent			
15. (B3)	1.0 M Ammonium sulfate	Salt			
16. (B4)	1.0 M Potassium chloride	Salt			
17. (B5)	1.0 M Lithium chloride	Salt			
18. (B6)	2.0 M Sodium chloride	Salt			
19. (B7)	0.5 M Sodium fluoride	Salt			
20. (B8)	1.0 M Sodium iodide	Salt			
21. (B9)	2.0 M Sodium thiocyanate	Salt			
22. (B10)	1.0 M Potassium sodium tartrate tetrahydrate	Salt			
23. (B11)	1.0 M Sodium citrate tribasic dihydrate	Salt			
24. (B12)	1.0 M Cesium chloride	Salt			
25. (C1)	1.0 M Sodium malonate pH 7.0	Salt			
26. (C2)	0.1 M L-Proline	Amino Acid			
27. (C3)	0.1 M Phenol	Dissociating Agent			
28. (C4)	30% v/v Dimethyl sulfoxide	Dissociating Agent			
29. (C5)	0.1 M Sodium bromide	Dissociating Agent			
30. (C6)	30% w/v 6-Aminohexanoic acid	Linker			
31. (C7)	30% w/v 1,5-Diaminopentane dihydrochloride	Linker			
32. (C8)	30% w/v 1,6-Diaminohexane	Linker			
33. (C9)	30% w/v 1,8-Diaminooctane	Linker			
34. (C10)	1.0 M Glycine	Linker			
35. (C11)	0.3 M Glycyl-glycyl-glycine	Linker			
36. (C12)	0.1 M Taurine	Linker			
37. (D1)	0.1 M Betaine hydrochloride	Linker			
38. (D2)	0.1 M Spermidine	Polyamine			
39. (D3)	0.1 M Spermine tetrahydrochloride	Polyamine			
40. (D4)	0.1 M Hexamine cobalt(III) chloride	Polyamine			
41. (D5)	0.1 M Sarcosine	Polyamine/Osmolyte			
42. (D6)	0.1 M Trimethylamine hydrochloride	Chaotrope			
43. (D7)	1.0 M Guanidine hydrochloride	Chaotrope			
44. (D8)	0.1 M Urea	Chaotrope			
45. (D9)	0.1 M β -Nicotinamide adenine dinucleotide hydrate	Co-factor			
46. (D10)	0.1 M Adenosine-5'-triphosphate disodium salt hydrate	Co-factor			
47. (D11)	0.1 M TCEP hydrochloride	Reducing agent			
48. (D12)	0.01 M GSH (L-Glutathione reduced), 0.01 M GSSG (L-Glutathione oxidized)	Reducing agent			



Solutions for Crystal Growth

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

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		Date:	Date:	Date:	Date:
49. (E1)	0.1 M Ethylenediaminetetraacetic acid disodium salt dihydrate	Chelating Agent			
50. (E2)	5% w/v Polyvinylpyrrolidone K15	Polymer			
51. (E3)	30% w/v Dextran sulfate sodium salt (Mr 5,000)	Polymer			
52. (E4)	40% v/v Pentaerythritol ethoxylate (3/4 EO/OH)	Polymer			
53. (E5)	10% w/v Polyethylene glycol 3,350	Polymer			
54. (E6)	30% w/v D-(+)-Glucose monohydrate	Carbohydrate			
55. (E7)	30% w/v Sucrose	Carbohydrate			
56. (E8)	30% w/v Xylitol	Carbohydrate			
57. (E9)	30% w/v D-Sorbitol	Carbohydrate			
58. (E10)	12% w/v myo-Inositol	Carbohydrate			
59. (E11)	30% w/v D-(+)-Trehalose dihydrate	Carbohydrate			
60. (E12)	30% w/v D-(+)-Galactose	Carbohydrate			
61. (F1)	30% v/v Ethylene glycol	Polyol			
62. (F2)	30% v/v Glycerol	Polyol			
63. (F3)	3.0 M NDSB-195	Non-detergent			
64. (F4)	2.0 M NDSB-201	Non-detergent			
65. (F5)	2.0 M NDSB-211	Non-detergent			
66. (F6)	2.0 M NDSB-221	Non-detergent			
67. (F7)	1.0 M NDSB-256	Non-detergent			
68. (F8)	0.15 mM CYMAL® -7	Amphiphile			
69. (F9)	20% w/v Benzamidine hydrochloride	Amphiphile			
70. (F10)	5% w/v n-dodecyl-N,N-dimethylamine-N-oxide, (LDAO, DDAO)	Detergent			
71. (F11)	5% w/v n-Octyl- β -D-glucoside	Detergent			
72. (F12)	5% w/v n-Dodecyl- β -D-maltoside	Detergent			
73. (G1)	30% w/v Trimethylamine N-oxide dihydrate	Osmolyte			
74. (G2)	30% w/v 1,6-Hexanediol	Organic, Non-volatile			
75. (G3)	30% v/v (+/-)-2-Methyl-2,4-pentanediol	Organic, Non-volatile			
76. (G4)	50% v/v Polyethylene glycol 400	Organic, Non-volatile			
77. (G5)	50% v/v Jeffamine® M-600® pH 7.0	Organic, Non-volatile			
78. (G6)	40% v/v 2,5-Hexanediol	Organic, Non-volatile			
79. (G7)	40% v/v (\pm)-1,3-Butanediol	Organic, Non-volatile			
80. (G8)	40% v/v Polypropylene glycol P 400	Organic, Non-volatile			
81. (G9)	30% v/v 1,4-Dioxane	Organic, Volatile			
82. (G10)	30% v/v Ethanol	Organic, Volatile			
83. (G11)	30% v/v 2-Propanol	Organic, Volatile			
84. (G12)	30% v/v Methanol	Organic, Volatile			
85. (H1)	40% v/v 1,4-Butanediol	Organic, Volatile			
86. (H2)	40% v/v tert-Butanol	Organic, Volatile			
87. (H3)	40% v/v 1,3-Propanediol	Organic, Volatile			
88. (H4)	40% v/v Acetonitrile	Organic, Volatile			
89. (H5)	40% v/v Formamide	Organic, Volatile			
90. (H6)	40% v/v 1-Propanol	Organic, Volatile			
91. (H7)	5% v/v Ethyl acetate	Organic, Volatile			
92. (H8)	40% v/v Acetone	Organic, Volatile			
93. (H9)	0.25% v/v Dichloromethane	Organic, Volatile			
94. (H10)	7% v/v 1-Butanol	Organic, Volatile			
95. (H11)	40% v/v 2,2,2-Trifluoroethanol	Organic, Volatile			
96. (H12)	40% v/v 1,1,1,3,3,3-Hexafluoro-2-propanol	Organic, Volatile			

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 e-mail: tech@hrcr.com
 Website: www.hamptonresearch.com