

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)

Matrx™ 2 - HR2-117 Scoring Sheet

Date: _____ Date: _____

1.	0.04 M Lithium chloride, 0.02 M Magnesium chloride hexahydrate, 0.04 M Sodium cacodylate trihydrate pH 5.5, 30% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.002 M Hexamine cobalt(III) chloride		
2.	0.08 M Sodium chloride, 0.02 M Magnesium chloride hexahydrate, 0.04 M Sodium cacodylate trihydrate pH 5.5, 35% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.002 M Hexamine cobalt(III) chloride		
3.	0.012 M Sodium chloride, 0.08 M Potassium chloride, 0.04 M Sodium cacodylate trihydrate pH 5.5, 45% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.002 M Hexamine cobalt(III) chloride		
4.	0.02 M Magnesium chloride hexahydrate, 0.04 M Sodium cacodylate trihydrate pH 5.5, 40% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.002 M Hexamine cobalt(III) chloride		
5.	0.002 M Calcium chloride dihydrate, 0.05 M Sodium cacodylate trihydrate pH 6.0, 1.8 M Ammonium sulfate, 0.0005 M Spermine		
6.	0.05 M Sodium cacodylate trihydrate pH 6.0, 35% v/v Tacsimate pH 6.0, 0.001 M Spermine		
7.	0.1 M Sodium chloride, 0.05 M Sodium cacodylate trihydrate pH 6.0, 10% w/v Polyethylene glycol 4,000, 0.0005 M Spermine		
8.	0.05 M Potassium chloride, 0.05 M Sodium cacodylate trihydrate pH 6.0, 10% w/v Polyethylene glycol 8,000, 0.0005 M Spermine, 0.0005 M L-Argininamide dihydrochloride		
9.	0.1 M Potassium chloride, 0.05 M Sodium cacodylate trihydrate pH 6.0, 16% w/v Polyethylene glycol 1,000, 0.0005 M Spermine		
10.	0.005 M Magnesium chloride hexahydrate, 0.002 M Calcium chloride dihydrate, 0.05 M Sodium cacodylate trihydrate pH 6.0, 15% v/v 2-Propanol, 0.001 M Spermine		
11.	0.075 M Sodium chloride, 0.002 M Calcium chloride dihydrate, 0.05 M Sodium cacodylate trihydrate pH 6.0, 30% w/v 1,6-Hexanediol, 0.0005 M Spermine		
12.	0.02 M Magnesium sulfate hydrate, 0.002 M Cobalt(II) chloride hexahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.0, 25% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.0005 M Spermine		
13.	0.05 M Sodium cacodylate trihydrate pH 6.0, 30% v/v (+/-)-2-Methyl-2,4-pentanediol		
14.	0.08 M Sodium chloride, 0.012 M Potassium chloride, 0.02 M Magnesium chloride hexahydrate, 0.04 M Sodium cacodylate trihydrate pH 6.0, 30% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
15.	0.08 M Sodium chloride, 0.02 M Magnesium chloride hexahydrate, 0.04 M Sodium cacodylate trihydrate pH 6.0, 35% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
16.	0.08 M Strontium chloride hexahydrate, 0.04 M Sodium cacodylate trihydrate pH 6.0, 35% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
17.	0.08 M Potassium chloride, 0.02 M Barium chloride dihydrate, 0.04 M Sodium cacodylate trihydrate pH 6.0, 40% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
18.	0.08 M Potassium chloride, 0.02 M Magnesium chloride hexahydrate, 0.04 M Sodium cacodylate trihydrate pH 6.0, 45% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
19.	0.08 M Sodium chloride, 0.04 M Sodium cacodylate trihydrate pH 6.0, 45% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
20.	0.08 M Sodium chloride, 0.02 M Barium chloride dihydrate, 0.04 M Sodium cacodylate trihydrate pH 6.0, 45% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
21.	0.012 M Sodium chloride, 0.08 M Potassium chloride, 0.04 M Sodium cacodylate trihydrate pH 6.0, 50% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
22.	0.08 M Potassium chloride, 0.04 M Sodium cacodylate trihydrate pH 6.0, 55% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
23.	0.018 M Magnesium chloride hexahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.5, 10% v/v 2-Propanol, 0.003 M Spermine		
24.	0.02 M Magnesium chloride hexahydrate, 0.05 M MOPS pH 7.0, 2.0 M Ammonium sulfate, 0.0005 M Spermine		
25.	0.05 M HEPES sodium pH 7.0, 40% v/v Tacsimate pH 7.0, 0.002 M Spermine, 0.002 M Hexamine cobalt(III) chloride		
26.	0.02 M Magnesium chloride hexahydrate, 0.05 M MOPS pH 7.0, 55% v/v Tacsimate pH 7.0, 0.002 M Hexamine cobalt(III) chloride		
27.	0.02 M Magnesium chloride hexahydrate, 0.05 M Sodium cacodylate trihydrate pH 7.0, 15% v/v 2-Propanol, 0.001 M Hexamine cobalt(III) chloride, 0.001 M Spermine		
28.	0.005 M Magnesium chloride hexahydrate, 0.05 M MOPS pH 7.0, 25% v/v 1,4-Dioxane, 0.001 M Spermine		
29.	0.01 M Magnesium chloride hexahydrate, 0.002 M Barium chloride dihydrate, 0.05 M MOPS pH 7.0, 30% v/v 1,4-Dioxane		
30.	0.001 M Magnesium chloride hexahydrate, 0.002 M Calcium chloride dihydrate, 0.05 M MOPS pH 7.0, 15% v/v (+/-)-2-Methyl-2,4-pentanediol		
31.	0.08 M Strontium chloride hexahydrate, 0.02 M Magnesium chloride hexahydrate, 0.04 M Sodium cacodylate trihydrate pH 7.0, 20% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
32.	0.08 M Sodium chloride, 0.04 M Sodium cacodylate trihydrate pH 7.0, 30% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
33.	0.04 M Lithium chloride, 0.08 M Strontium chloride hexahydrate, 0.04 M Sodium cacodylate trihydrate pH 7.0, 30% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
34.	0.04 M Lithium chloride, 0.08 M Strontium chloride hexahydrate, 0.02 M Magnesium chloride hexahydrate, 0.04 M Sodium cacodylate trihydrate pH 7.0, 30% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
35.	0.08 M Sodium chloride, 0.012 M Potassium chloride, 0.02 M Magnesium chloride hexahydrate, 0.04 M Sodium cacodylate trihydrate pH 7.0, 35% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
36.	0.012 M Sodium chloride, 0.08 M Potassium chloride, 0.04 M Sodium cacodylate trihydrate pH 7.0, 40% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
37.	0.08 M Sodium chloride, 0.02 M Barium chloride dihydrate, 0.04 M Sodium cacodylate trihydrate pH 7.0, 40% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
38.	0.08 M Sodium chloride, 0.02 M Magnesium chloride hexahydrate, 0.04 M Sodium cacodylate trihydrate pH 7.0, 40% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
39.	0.08 M Potassium chloride, 0.02 M Barium chloride dihydrate, 0.04 M Sodium cacodylate trihydrate pH 7.0, 40% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
40.	0.08 M Potassium chloride, 0.02 M Magnesium chloride hexahydrate, 0.04 M Sodium cacodylate trihydrate pH 7.0, 50% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
41.	0.08 M Potassium chloride, 0.04 M Sodium cacodylate trihydrate pH 7.0, 60% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.012 M Spermine tetrahydrochloride		
42.	0.02 M Magnesium chloride hexahydrate, 0.002 M Cobalt(II) chloride hexahydrate, 0.05 M HEPES sodium pH 7.5, 2.0 M Ammonium sulfate, 0.001 M Spermine		
43.	0.02 M Magnesium chloride hexahydrate, 0.05 M PIPES pH 7.5, 4% w/v Polyethylene glycol 8,000, 0.001 M Spermine		
44.	0.015 M Magnesium chloride hexahydrate, 0.002 M Barium chloride dihydrate, 0.05 M PIPES pH 7.5, 7% v/v 2-Propanol, 0.0005 M Spermine		
45.	0.02 M Magnesium chloride hexahydrate, 0.05 M PIPES pH 7.5, 10% w/v 1,6-Hexanediol, 0.001 M Spermine		
46.	0.01 M Magnesium chloride hexahydrate, 0.05 M HEPES sodium pH 7.5, 15% v/v (+/-)-2-Methyl-2,4-pentanediol, 0.0015 M Spermine		
47.	0.2 M Calcium chloride dihydrate, 0.05 M HEPES sodium pH 7.5, 28% v/v Polyethylene glycol 400, 0.002 M Spermine		
48.	0.002 M Copper(II) chloride dihydrate, 0.05 M TRIS hydrochloride pH 8.5, 1.8 M Lithium sulfate monohydrate, 0.0005 M Spermine		