

Natrix HT (HR2-131) - Scoring Sheet

Sample:	1 Clear Drop 2 Phase Separation 3 Regular Granular Precipitate 4 Birefringent Precipitate 5 Spherulites 6 Needles 1D 7 Plates 2D 8 Xtal <0.2 mm 9 Xtal >0.2 mm		
Buffer:			
Reservoir Volume:			
Drop:			
Temperature:			
Drop:			
Temperature:	Date	Date	Date
A1. 0.01 M Magnesium chloride hexahydrate, 0.05 M MES monohydrate pH 5.6, 1.8 M Lithium sulfate monohydrate			
A2. 0.01 M Magnesium acetate tetrahydrate, 0.05 M MES monohydrate pH 5.6, 2.5 M Ammonium sulfate			
A3. 0.1 M Magnesium acetate tetrahydrate, 0.05 M MES monohydrate pH 5.6, 20 % v/v (+/-)-2-Methyl-2,4-pentanediol			
A4. 0.2 M Potassium chloride, 0.01 M Magnesium sulfate heptahydrate, 0.05 M MES monohydrate pH 5.6, 10 % v/v Polyethylene glycol 400			
A5. 0.2 M Potassium chloride, 0.01 M Magnesium chloride hexahydrate, 0.05 M MES monohydrate pH 5.6, 5 % w/v Polyethylene glycol 8,000			
A6. 0.1 M Ammonium sulfate , 0.01 M Magnesium chloride hexahydrate, 0.05 M MES monohydrate pH 5.6, 20 % w/v Polyethylene glycol 8,000			
A7. 0.02 M Magnesium chloride hexahydrate, 0.05 M MES monohydrate pH 6.0, 15 % v/v 2-Propanol			
A8. 0.1 M Ammonium acetate, 0.005 M Magnesium sulfate heptahydrate, 0.05 M MES monohydrate pH 6.0, 0.6 M Sodium chloride			
A9. 0.1 M Potassium chloride, 0.01 M Magnesium chloride hexahydrate, 0.05 M MES monohydrate pH 6.0, 10 % v/v Polyethylene glycol 400			
A10. 0.005 M Magnesium sulfate heptahydrate, 0.05 M MES monohydrate pH 6.0, 5 % w/v Polyethylene glycol 4,000			
A11. 0.01 M Magnesium chloride hexahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.0, 1.0 M Lithium sulfate monohydrate			
A12. 0.01 M Magnesium sulfate heptahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.0, 1.8 M Lithium sulfate monohydrate			
B1. 0.015 M Magnesium acetate tetrahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.0, 1.7 M Ammonium sulfate			
B2. 0.1 M Potassium chloride, 0.025 M Magnesium chloride hexahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.0, 15 % v/v 2-Propanol			
B3. 0.04 M Magnesium chloride hexahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.0, 5 % v/v (+/-)-2-Methyl-2,4-pentanediol			

B4. 0.04 M Magnesium acetate tetrahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.0, 30 % v/v (+/-)-2-Methyl-2,4-pentanediol			
B5. 0.2 M Potassium chloride, 0.01 M Calcium chloride dihydrate, 0.05 M Sodium cacodylate trihydrate pH 6.0, 10 % w/v Polyethylene glycol 4,000			
B6. 0.01 M Magnesium acetate tetrahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.5, 1.3 M Lithium sulfate monohydrate			
B7. 0.01 M Magnesium sulfate heptahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.5, 2.0 M Ammonium sulfate			
B8. 0.1 M Ammonium acetate, 0.015 M Magnesium acetate tetrahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.5, 10 % v/v 2-Propanol			
B9. 0.2 M Potassium chloride, 0.005 M Magnesium chloride hexahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.5, 0.9 M 1,6-Hexanediol			
B10. 0.08 M Magnesium acetate tetrahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.5, 15 % v/v Polyethylene glycol 400			
B11. 0.2 M Potassium chloride, 0.01 M Magnesium chloride hexahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.5, 10 % w/v Polyethylene glycol 4,000			
B12. 0.2 M Ammonium acetate, 0.01 M Calcium chloride dihydrate, 0.05 M Sodium cacodylate trihydrate pH 6.5, 10 % w/v Polyethylene glycol 4,000			
C1. 0.08 M Magnesium acetate tetrahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.5, 30 % w/v Polyethylene glycol 4,000			
C2. 0.2 M Potassium chloride, 0.1 M Magnesium acetate tetrahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.5, 10 % w/v Polyethylene glycol 8,000			
C3. 0.2 M Ammonium acetate, 0.01 M Magnesium acetate tetrahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.5, 30 % w/v Polyethylene glycol 8,000			
C4. 0.05 M Magnesium sulfate hydrate, 0.05 M HEPES Sodium pH 7.0, 1.6 M Lithium sulfate monohydrate			
C5. 0.01 M Magnesium chloride hexahydrate, 0.05 M HEPES Sodium pH 7.0, 4.0 M Lithium chloride			
C6. 0.01 M Magnesium chloride hexahydrate, 0.05 M HEPES Sodium pH 7.0, 1.6 M Ammonium sulfate			
C7. 0.005 M Magnesium chloride hexahydrate, 0.05 M HEPES Sodium pH 7.0, 25 % v/v Polyethylene glycol monomethyl ether 550			
C8. 0.2 M Potassium chloride, 0.01 M Magnesium chloride hexahydrate, 0.05 M HEPES Sodium pH 7.0, 1.7 M 1,6-Hexanediol			
C9. 0.2 M Ammonium chloride, 0.01 M Magnesium chloride hexahydrate, 0.05 M HEPES Sodium pH 7.0, 2.5 M 1,6-Hexanediol			
C10. 0.1 M Potassium chloride, 0.005 M Magnesium sulfate hydrate, 0.05 M HEPES Sodium pH 7.0, 15 % v/v (+/-)-2-Methyl-2,4-pentanediol			
C11. 0.1 M Potassium chloride, 0.01 M Magnesium chloride hexahydrate, 0.05 M HEPES Sodium pH 7.0, 5 % v/v Polyethylene glycol 400			
C12. 0.1 M Potassium chloride, 0.01 M Calcium chloride dihydrate, 0.05 M HEPES Sodium pH 7.0, 10 % v/v Polyethylene glycol 400			

D1. 0.2 M Potassium chloride, 0.025 M Magnesium sulfate hydrate, 0.05 M HEPES Sodium pH 7.0, 20 % v/v Polyethylene glycol 200			
D2. 0.2 M Ammonium acetate, 0.15 M Magnesium acetate tetrahydrate, 0.05 M HEPES Sodium pH 7.0, 5 % w/v Polyethylene glycol 4,000			
D3. 0.1 M Ammonium acetate, 0.02 M Magnesium chloride hexahydrate, 0.05 M HEPES Sodium pH 7.0, 5 % w/v Polyethylene glycol 8,000			
D4. 0.01 M Magnesium chloride hexahydrate, 0.05 M TRIS hydrochloride pH 7.5, 1.6 M Ammonium sulfate			
D5. 0.1 M Potassium chloride, 0.015 M Magnesium chloride hexahydrate, 0.05 M TRIS hydrochloride pH 7.5, 10 % v/v Polyethylene glycol monomethyl ether 550			
D6. 0.01 M Magnesium chloride hexahydrate, 0.05 M TRIS hydrochloride pH 7.5, 5 % v/v 2-Propanol			
D7. 0.05 M Ammonium acetate, 0.01 M Magnesium chloride hexahydrate, 0.05 M TRIS hydrochloride pH 7.5, 10 % v/v (+/-)-2-Methyl-2,4-pentanediol			
D8. 0.2 M Potassium chloride, 0.05 M Magnesium chloride hexahydrate, 0.05 M TRIS hydrochloride pH 7.5, 10 % w/v Polyethylene glycol 4,000			
D9. 0.025 M Magnesium sulfate hydrate, 0.05 M TRIS hydrochloride pH 8.5, 1.8 M Ammonium sulfate			
D10. 0.005 M Magnesium sulfate hydrate, 0.05 M TRIS hydrochloride pH 8.5, 2.9 M 1,6-Hexanediol			
D11. 0.1 M Potassium chloride, 0.01 M Magnesium chloride hexahydrate, 0.05 M TRIS hydrochloride pH 8.5, 30 % v/v Polyethylene glycol 400			
D12. 0.2 M Ammonium chloride, 0.01 M Calcium chloride dihydrate, 0.05 M TRIS hydrochloride pH 8.5, 30 % w/v Polyethylene glycol 4,000			
E1. 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			
E2. 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			
E3. 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			
E4. 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			
E5. 0.002 M Calcium chloride dihydrate, 0.05 M Sodium cacodylate trihydrate pH 6.0, 1.8 M Ammonium sulfate, 0.0005 M Spermine			
E6. 0.05 M Sodium cacodylate trihydrate pH 6.0, 35% v/v Tacsimate pH 6.0, 0.001 M Spermine			
E7. 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			
E8. 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			
E9. 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			
E10. 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			

E11. 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			
E12. 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			
F1. 0.05 M Sodium cacodylate trihydrate pH 6.0, 30% v/v (+/-)-2-Methyl-2,4-pentanediol			
F2. 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			
F3. 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			
F4. 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			
F5. 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			
F6. 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			
F7. 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			
F8. 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			
F9. 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			
F10. 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			
F11. 0.018 M Magnesium chloride hexahydrate, 0.05 M Sodium cacodylate trihydrate pH 6.5, 10% v/v 2-Propanol, 0.003 M Spermine			
F12. 0.02 M Magnesium chloride hexahydrate, 0.05 M MOPS pH 7.0, 2.0 M Ammonium sulfate, 0.0005 M Spermine			
G1. 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			
G2. 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			
G3. 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			
G4. 0.005 M Magnesium chloride hexahydrate, 0.05 M MOPS pH 7.0, 25% v/v 1,4-Dioxane, 0.001 M Spermine			
G5. 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			
G6. 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			

G7. 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			
G8. 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			
G9. 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			
G10. 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			
G11. 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			
G12. 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			
H1. 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			
H2. 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			
H3. 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			
H4. 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			
H5. 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			
H6. 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			
H7. 0.02 M Magnesium chloride hexahydrate, 0.05 M PIPES pH 7.5, 4% w/v Polyethylene glycol 8,000, 0.001 M Spermine			
H8. 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			
H9. 0.02 M Magnesium chloride hexahydrate, 0.05 M PIPES pH 7.5, 10% w/v 1,6-Hexanediol, 0.001 M Spermine			
H10. 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			
H11. 0.2 M Calcium chloride dihydrate, 0.05 M HEPES sodium pH 7.5, 28% v/v Polyethylene glycol 400, 0.002 M Spermine			
H12. 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			