

Well #	Salt	Well #	Buffer ◇	Well #	Precipitant
1. (A1)	0.01 M Magnesium chloride hexahydrate	1. (A1)	0.05 M MES monohydrate pH 5.6	1. (A1)	1.8 M Lithium sulfate monohydrate
2. (A2)	0.01 M Magnesium acetate tetrahydrate	2. (A2)	0.05 M MES monohydrate pH 5.6	2. (A2)	2.5 M Ammonium sulfate
3. (A3)	0.1 M Magnesium acetate tetrahydrate	3. (A3)	0.05 M MES monohydrate pH 5.6	3. (A3)	20% v/v (+/-)-2-Methyl-2,4-pentanediol
4. (A4)	0.2 M Potassium chloride, 0.01 M Magnesium sulfate heptahydrate	4. (A4)	0.05 M MES monohydrate pH 5.6	4. (A4)	10% v/v Polyethylene glycol 400
5. (A5)	0.2 M Potassium chloride, 0.01 M Magnesium chloride hexahydrate	5. (A5)	0.05 M MES monohydrate pH 5.6	5. (A5)	5% w/v Polyethylene glycol 8,000
6. (A6)	0.1 M Ammonium sulfate, 0.01 M Magnesium chloride hexahydrate	6. (A6)	0.05 M MES monohydrate pH 5.6	6. (A6)	20% w/v Polyethylene glycol 8,000
7. (A7)	0.02 M Magnesium chloride hexahydrate	7. (A7)	0.05 M MES monohydrate pH 6.0	7. (A7)	15% v/v 2-Propanol
8. (A8)	0.1 M Ammonium acetate, 0.005 M Magnesium sulfate heptahydrate	8. (A8)	0.05 M MES monohydrate pH 6.0	8. (A8)	0.6 M Sodium chloride
9. (A9)	0.1 M Potassium chloride, 0.01 M Magnesium chloride hexahydrate	9. (A9)	0.05 M MES monohydrate pH 6.0	9. (A9)	10% v/v Polyethylene glycol 400
10. (A10)	0.005 M Magnesium sulfate heptahydrate	10. (A10)	0.05 M MES monohydrate pH 6.0	10. (A10)	5% w/v Polyethylene glycol 4,000
11. (A11)	0.01 M Magnesium chloride hexahydrate	11. (A11)	0.05 M Sodium cacodylate trihydrate pH 6.0	11. (A11)	1.0 M Lithium sulfate monohydrate
12. (A12)	0.01 M Magnesium sulfate heptahydrate	12. (A12)	0.05 M Sodium cacodylate trihydrate pH 6.0	12. (A12)	1.8 M Lithium sulfate monohydrate
13. (B1)	0.015 M Magnesium acetate tetrahydrate	13. (B1)	0.05 M Sodium cacodylate trihydrate pH 6.0	13. (B1)	1.7 M Ammonium sulfate
14. (B2)	0.1 M Potassium chloride, 0.025 M Magnesium chloride hexahydrate	14. (B2)	0.05 M Sodium cacodylate trihydrate pH 6.0	14. (B2)	15% v/v 2-Propanol
15. (B3)	0.04 M Magnesium chloride hexahydrate	15. (B3)	0.05 M Sodium cacodylate trihydrate pH 6.0	15. (B3)	5% v/v (+/-)-2-Methyl-2,4-pentanediol
16. (B4)	0.04 M Magnesium sulfate tetrahydrate	16. (B4)	0.05 M Sodium cacodylate trihydrate pH 6.0	16. (B4)	30% v/v (+/-)-2-Methyl-2,4-pentanediol
17. (B5)	0.2 M Potassium chloride, 0.01 M Calcium chloride dihydrate	17. (B5)	0.05 M Sodium cacodylate trihydrate pH 6.0	17. (B5)	10% w/v Polyethylene glycol 4,000
18. (B6)	0.01 M Magnesium acetate tetrahydrate	18. (B6)	0.05 M Sodium cacodylate trihydrate pH 6.5	18. (B6)	1.3 M Lithium sulfate monohydrate
19. (B7)	0.01 M Magnesium sulfate heptahydrate	19. (B7)	0.05 M Sodium cacodylate trihydrate pH 6.5	19. (B7)	2.0 M Ammonium sulfate
20. (B8)	0.1 M Ammonium acetate, 0.015 M Magnesium acetate tetrahydrate	20. (B8)	0.05 M Sodium cacodylate trihydrate pH 6.5	20. (B8)	10% v/v 2-Propanol
21. (B9)	0.2 M Potassium chloride, 0.005 M Magnesium chloride hexahydrate	21. (B9)	0.05 M Sodium cacodylate trihydrate pH 6.5	21. (B9)	0.9 M 1,6-Hexanediol
22. (B10)	0.08 M Magnesium acetate tetrahydrate	22. (B10)	0.05 M Sodium cacodylate trihydrate pH 6.5	22. (B10)	15% v/v Polyethylene glycol 400
23. (B11)	0.2 M Potassium chloride, 0.01 M Magnesium chloride hexahydrate	23. (B11)	0.05 M Sodium cacodylate trihydrate pH 6.5	23. (B11)	10% w/v Polyethylene glycol 4,000
24. (B12)	0.2 M Ammonium acetate, 0.01 M Calcium chloride dihydrate	24. (B12)	0.05 M Sodium cacodylate trihydrate pH 6.5	24. (B12)	10% w/v Polyethylene glycol 4,000
25. (C1)	0.08 M Magnesium acetate tetrahydrate	25. (C1)	0.05 M Sodium cacodylate trihydrate pH 6.5	25. (C1)	30% w/v Polyethylene glycol 4,000
26. (C2)	0.2 M Potassium chloride, 0.1 M Magnesium acetate tetrahydrate	26. (C2)	0.05 M Sodium cacodylate trihydrate pH 6.5	26. (C2)	10% w/v Polyethylene glycol 8,000
27. (C3)	0.2 M Ammonium acetate, 0.01 M Magnesium acetate tetrahydrate	27. (C3)	0.05 M Sodium cacodylate trihydrate pH 6.5	27. (C3)	30% v/v Polyethylene glycol 8,000
28. (C4)	0.05 M Magnesium sulfate hydrate	28. (C4)	0.05 M HEPES sodium pH 7.0	28. (C4)	1.6 M Lithium sulfate monohydrate
29. (C5)	0.01 M Magnesium chloride hexahydrate	29. (C5)	0.05 M HEPES sodium pH 7.0	29. (C5)	4.0 M Lithium chloride
30. (C6)	0.01 M Magnesium chloride hexahydrate	30. (C6)	0.05 M HEPES sodium pH 7.0	30. (C6)	1.6 M Ammonium sulfate
31. (C7)	0.005 M Magnesium chloride hexahydrate	31. (C7)	0.05 M HEPES sodium pH 7.0	31. (C7)	25% v/v Polyethylene glycol monomethyl ether 550
32. (C8)	0.2 M Potassium chloride, 0.01 M Magnesium chloride hexahydrate	32. (C8)	0.05 M HEPES sodium pH 7.0	32. (C8)	1.7 M 1,6-Hexanediol
33. (C9)	0.2 M Ammonium chloride, 0.01 M Magnesium chloride hexahydrate	33. (C9)	0.05 M HEPES sodium pH 7.0	33. (C9)	2.5 M 1,6-Hexanediol
34. (C10)	0.1 M Potassium chloride, 0.005 M Magnesium sulfate hydrate	34. (C10)	0.05 M HEPES sodium pH 7.0	34. (C10)	15% v/v (+/-)-2-Methyl-2,4-pentanediol
35. (C11)	0.1 M Potassium chloride, 0.01 M Magnesium chloride hexahydrate	35. (C11)	0.05 M HEPES sodium pH 7.0	35. (C11)	5% v/v Polyethylene glycol 400
36. (C12)	0.1 M Potassium chloride, 0.01 M Calcium chloride dihydrate	36. (C12)	0.05 M HEPES sodium pH 7.0	36. (C12)	10% v/v Polyethylene glycol 400
37. (D1)	0.2 M Potassium chloride, 0.025 M Magnesium sulfate hydrate	37. (D1)	0.05 M HEPES sodium pH 7.0	37. (D1)	20% v/v Polyethylene glycol 200
38. (D2)	0.2 M Ammonium acetate, 0.15 M Magnesium acetate tetrahydrate	38. (D2)	0.05 M HEPES sodium pH 7.0	38. (D2)	5% w/v Polyethylene glycol 4,000
39. (D3)	0.1 M Ammonium acetate, 0.02 M Magnesium chloride hexahydrate	39. (D3)	0.05 M HEPES sodium pH 7.0	39. (D3)	5% w/v Polyethylene glycol 8,000
40. (D4)	0.01 M Magnesium chloride hexahydrate	40. (D4)	0.05 M TRIS hydrochloride pH 7.5	40. (D4)	1.6 M Ammonium sulfate
41. (D5)	0.1 M Potassium chloride, 0.015 M Magnesium chloride hexahydrate	41. (D5)	0.05 M TRIS hydrochloride pH 7.5	41. (D5)	10% v/v Polyethylene glycol monomethyl ether 550
42. (D6)	0.01 M Magnesium chloride hexahydrate	42. (D6)	0.05 M TRIS hydrochloride pH 7.5	42. (D6)	5% v/v 2-Propanol
43. (D7)	0.05 M Ammonium acetate, 0.01 M Magnesium chloride hexahydrate	43. (D7)	0.05 M TRIS hydrochloride pH 7.5	43. (D7)	10% v/v (+/-)-2-Methyl-2,4-pentanediol
44. (D8)	0.2 M Potassium chloride, 0.05 M Magnesium chloride hexahydrate	44. (D8)	0.05 M TRIS hydrochloride pH 7.5	44. (D8)	10% w/v Polyethylene glycol 4,000
45. (D9)	0.025 M Magnesium sulfate hydrate	45. (D9)	0.05 M TRIS hydrochloride pH 8.5	45. (D9)	1.8 M Ammonium sulfate
46. (D10)	0.005 M Magnesium sulfate hydrate	46. (D10)	0.05 M TRIS hydrochloride pH 8.5	46. (D10)	2.9 M 1,6-Hexanediol
47. (D11)	0.1 M Potassium chloride, 0.01 M Magnesium chloride hexahydrate	47. (D11)	0.05 M TRIS hydrochloride pH 8.5	47. (D11)	30% v/v Polyethylene glycol 400
48. (D12)	0.2 M Ammonium chloride, 0.01 M Calcium chloride dihydrate	48. (D12)	0.05 M TRIS hydrochloride pH 8.5	48. (D12)	30% w/v Polyethylene glycol 4,000

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

Natrix HT contains ninety-six unique reagents. To determine the formulation of each reagent, simply read across the page.

Well #	Salt	Well #	Buffer ◊	Well #	Precipitant	Well #	Additive
49.(E1)	0.04 M Lithium chloride, 0.02 M Magnesium chloride hexahydrate	49.(E1)	0.04 M Sodium cacodylate trihydrate pH 5.5	49.(E1)	30% v/v (+/-)-2-Methyl-2,4-pentanediol	49.(E1)	0.02 M Hexamine cobalt(III) chloride
50.(E2)	0.08 M Sodium chloride, 0.02 M Magnesium chloride hexahydrate	50.(E2)	0.04 M Sodium cacodylate trihydrate pH 5.5	50.(E2)	35% v/v (+/-)-2-Methyl-2,4-pentanediol	50.(E2)	0.02 M Hexamine cobalt(III) chloride
51.(E3)	0.012 M Sodium chloride, 0.08 M Potassium chloride	51.(E3)	0.04 M Sodium cacodylate trihydrate pH 5.5	51.(E3)	45% v/v (+/-)-2-Methyl-2,4-pentanediol	51.(E3)	0.02 M Hexamine cobalt(III) chloride
52.(E4)	0.02 M Magnesium chloride hexahydrate	52.(E4)	0.04 M Sodium cacodylate trihydrate pH 5.5	52.(E4)	40% v/v (+/-)-2-Methyl-2,4-pentanediol	52.(E4)	0.02 M Hexamine cobalt(III) chloride
53.(E5)	0.002 M Calcium chloride dihydrate	53.(E5)	0.05 M Sodium cacodylate trihydrate pH 6.0	53.(E5)	1.8 M Ammonium sulfate	53.(E5)	0.0005 M Spermine
54.(E6)		54.(E6)	0.05 M Sodium cacodylate trihydrate pH 6.0	54.(E6)	35% v/v Tacsimate™ pH 6.0	54.(E6)	0.001 M Spermine
55.(E7)	0.1 M Sodium chloride	55.(E7)	0.05 M Sodium cacodylate trihydrate pH 6.0	55.(E7)	10% w/v Polyethylene glycol 4,000	55.(E7)	0.0005 M Spermine
56.(E8)	0.05 M Potassium chloride	56.(E8)	0.05 M Sodium cacodylate trihydrate pH 6.0	56.(E8)	10% w/v Polyethylene glycol 8,000	56.(E8)	0.0005 M Spermine, 0.0005 M L-Argininamide dihydrochloride
57.(E9)	0.1 M Potassium chloride	57.(E9)	0.05 M Sodium cacodylate trihydrate pH 6.0	57.(E9)	16% w/v Polyethylene glycol 1,000	57.(E9)	0.0005 M Spermine
58.(E10)	0.005 M Magnesium chloride hexahydrate, 0.002 M Calcium chloride dihydrate	58.(E10)	0.05 M Sodium cacodylate trihydrate pH 6.0	58.(E10)	15% v/v 2-Propanol	58.(E10)	0.001 M Spermine
59.(E11)	0.075 M Sodium chloride, 0.002 M Calcium chloride dihydrate	59.(E11)	0.05 M Sodium cacodylate trihydrate pH 6.0	59.(E11)	30% w/v 1,6-Hexanediol	59.(E11)	0.0005 M Spermine
60.(E12)	0.02 M Magnesium sulfate hydrate, 0.002 M Cobalt(II) chloride hexahydrate	60.(E12)	0.05 M Sodium cacodylate trihydrate pH 6.0	60.(E12)	25% v/v (+/-)-2-Methyl-2,4-pentanediol	60.(E12)	0.0005 M Spermine
61.(F1)		61.(F1)	0.05 M Sodium cacodylate trihydrate pH 6.0	61.(F1)	30% v/v (+/-)-2-Methyl-2,4-pentanediol	61.(F1)	
62.(F2)	0.08 M Sodium chloride, 0.012 M Potassium chloride, 0.02 M Magnesium chloride hexahydrate	62.(F2)	0.04 M Sodium cacodylate trihydrate pH 6.0	62.(F2)	30% v/v (+/-)-2-Methyl-2,4-pentanediol	62.(F2)	0.012 M Spermine tetrahydrochloride
63.(F3)	0.08 M Sodium chloride, 0.02 M Magnesium chloride hexahydrate	63.(F3)	0.04 M Sodium cacodylate trihydrate pH 6.0	63.(F3)	35% v/v (+/-)-2-Methyl-2,4-pentanediol	63.(F3)	0.012 M Spermine tetrahydrochloride
64.(F4)	0.08 M Strontium chloride hexahydrate	64.(F4)	0.04 M Sodium cacodylate trihydrate pH 6.0	64.(F4)	35% v/v (+/-)-2-Methyl-2,4-pentanediol	64.(F4)	0.012 M Spermine tetrahydrochloride
65.(F5)	0.08 M Potassium chloride, 0.02 M Barium chloride dihydrate	65.(F5)	0.04 M Sodium cacodylate trihydrate pH 6.0	65.(F5)	40% v/v (+/-)-2-Methyl-2,4-pentanediol	65.(F5)	0.012 M Spermine tetrahydrochloride
66.(F6)	0.08 M Potassium chloride, 0.02 M Magnesium chloride hexahydrate	66.(F6)	0.04 M Sodium cacodylate trihydrate pH 6.0	66.(F6)	45% v/v (+/-)-2-Methyl-2,4-pentanediol	66.(F6)	0.012 M Spermine tetrahydrochloride
67.(F7)	0.08 M Sodium chloride	67.(F7)	0.04 M Sodium cacodylate trihydrate pH 6.0	67.(F7)	45% v/v (+/-)-2-Methyl-2,4-pentanediol	67.(F7)	0.012 M Spermine tetrahydrochloride
68.(F8)	0.08 M Sodium chloride, 0.02 M Barium chloride dihydrate	68.(F8)	0.04 M Sodium cacodylate trihydrate pH 6.0	68.(F8)	45% v/v (+/-)-2-Methyl-2,4-pentanediol	68.(F8)	0.012 M Spermine tetrahydrochloride
69.(F9)	0.012 M Sodium chloride, 0.08 M Potassium chloride	69.(F9)	0.04 M Sodium cacodylate trihydrate pH 6.0	69.(F9)	50% v/v (+/-)-2-Methyl-2,4-pentanediol	69.(F9)	0.012 M Spermine tetrahydrochloride
70.(F10)	0.08 M Potassium chloride	70.(F10)	0.04 M Sodium cacodylate trihydrate pH 6.0	70.(F10)	55% v/v (+/-)-2-Methyl-2,4-pentanediol	70.(F10)	0.012 M Spermine tetrahydrochloride
71.(F11)	0.018 M Magnesium chloride hexahydrate	71.(F11)	0.05 M Sodium cacodylate trihydrate pH 6.5	71.(F11)	10% v/v 2-Propanol	71.(F11)	0.003 M Spermine
72.(F12)	0.02 M Magnesium chloride hexahydrate	72.(F12)	0.05 M MOPS pH 7.0	72.(F12)	2.0 M Ammonium sulfate	72.(F12)	0.0005 M Spermine
73.(G1)		73.(G1)	0.05 M HEPES sodium pH 7.0	73.(G1)	40% v/v Tacsimate™ pH 7.0	73.(G1)	0.002 M Spermine, 0.002 M Hexamine cobalt(III) chloride
74.(G2)	0.02 M Magnesium chloride hexahydrate	74.(G2)	0.05 M MOPS pH 7.0	74.(G2)	55% v/v Tacsimate™ pH 7.0	74.(G2)	0.005 M Hexamine cobalt(III) chloride
75.(G3)	0.02 M Magnesium chloride hexahydrate	75.(G3)	0.05 M Sodium cacodylate trihydrate pH 7.0	75.(G3)	15% v/v 2-Propanol	75.(G3)	0.001 M Spermine 0.001 M Spermine
76.(G4)	0.005 M Magnesium chloride hexahydrate	76.(G4)	0.05 M MOPS pH 7.0	76.(G4)	25% v/v 1,4-Dioxane	76.(G4)	0.001 M Spermine
77.(G5)	0.01 M Magnesium chloride hexahydrate, 0.002 M Barium chloride dihydrate	77.(G5)	0.05 M MOPS pH 7.0	77.(G5)	30% v/v 1,4-Dioxane	77.(G5)	
78.(G6)	0.001 M Magnesium chloride hexahydrate, 0.002 M Calcium chloride dihydrate	78.(G6)	0.05 M MOPS pH 7.0	78.(G6)	15% v/v (+/-)-2-Methyl-2,4-pentanediol	78.(G6)	
79.(G7)	0.08 M Strontium chloride hexahydrate, 0.02 M Magnesium chloride hexahydrate	79.(G7)	0.04 M Sodium cacodylate trihydrate pH 7.0	79.(G7)	20% v/v (+/-)-2-Methyl-2,4-pentanediol	79.(G7)	0.012 M Spermine tetrahydrochloride
80.(G8)	0.08 M Sodium chloride	80.(G8)	0.04 M Sodium cacodylate trihydrate pH 7.0	80.(G8)	30% v/v (+/-)-2-Methyl-2,4-pentanediol	80.(G8)	0.012 M Spermine tetrahydrochloride
81.(G9)	0.04 M Lithium chloride, 0.08 M Strontium chloride hexahydrate	81.(G9)	0.04 M Sodium cacodylate trihydrate pH 7.0	81.(G9)	30% v/v (+/-)-2-Methyl-2,4-pentanediol	81.(G9)	0.012 M Spermine tetrahydrochloride
82.(G10)	0.04 M Lithium chloride, 0.08 M Strontium chloride hexahydrate, 0.02 M Magnesium chloride hexahydrate	82.(G10)	0.04 M Sodium cacodylate trihydrate pH 7.0	82.(G10)	30% v/v (+/-)-2-Methyl-2,4-pentanediol	82.(G10)	0.012 M Spermine tetrahydrochloride
83.(G11)	0.08 M Sodium chloride, 0.012 M Potassium chloride, 0.02 M Magnesium chloride hexahydrate	83.(G11)	0.04 M Sodium cacodylate trihydrate pH 7.0	83.(G11)	35% v/v (+/-)-2-Methyl-2,4-pentanediol	83.(G11)	0.012 M Spermine tetrahydrochloride
84.(G12)	0.012 M Sodium chloride, 0.08 M Potassium chloride	84.(G12)	0.04 M Sodium cacodylate trihydrate pH 7.0	84.(G12)	40% v/v (+/-)-2-Methyl-2,4-pentanediol	84.(G12)	0.012 M Spermine tetrahydrochloride
85.(H1)	0.08 M Sodium chloride, 0.02 M Barium chloride dihydrate	85.(H1)	0.04 M Sodium cacodylate trihydrate pH 7.0	85.(H1)	40% v/v (+/-)-2-Methyl-2,4-pentanediol	85.(H1)	0.012 M Spermine tetrahydrochloride
86.(H2)	0.08 M Sodium chloride, 0.02 M Magnesium chloride hexahydrate	86.(H2)	0.04 M Sodium cacodylate trihydrate pH 7.0	86.(H2)	40% v/v (+/-)-2-Methyl-2,4-pentanediol	86.(H2)	0.012 M Spermine tetrahydrochloride
87.(H3)	0.08 M Potassium chloride, 0.02 M Barium chloride dihydrate	87.(H3)	0.04 M Sodium cacodylate trihydrate pH 7.0	87.(H3)	40% v/v (+/-)-2-Methyl-2,4-pentanediol	87.(H3)	0.012 M Spermine tetrahydrochloride
88.(H4)	0.08 M Potassium chloride, 0.02 M Magnesium chloride hexahydrate	88.(H4)	0.04 M Sodium cacodylate trihydrate pH 7.0	88.(H4)	50% v/v (+/-)-2-Methyl-2,4-pentanediol	88.(H4)	0.012 M Spermine tetrahydrochloride
89.(H5)	0.08 M Potassium chloride	89.(H5)	0.04 M Sodium cacodylate trihydrate pH 7.0	89.(H5)	60% v/v (+/-)-2-Methyl-2,4-pentanediol	89.(H5)	0.012 M Spermine tetrahydrochloride
90.(H6)	0.02 M Magnesium chloride hexahydrate, 0.002 M Cobalt(II) chloride hexahydrate	90.(H6)	0.05 M HEPES sodium pH 7.5	90.(H6)	2.0 M Ammonium sulfate	90.(H6)	0.001 M Spermine
91.(H7)	0.02 M Magnesium chloride hexahydrate	91.(H7)	0.05 M PIPES pH 7.5	91.(H7)	4% w/v Polyethylene glycol 8,000	91.(H7)	0.001 M Spermine
92.(H8)	0.015 M Magnesium chloride hexahydrate, 0.002 M Barium chloride dihydrate	92.(H8)	0.05 M PIPES pH 7.5	92.(H8)	7% v/v 2-Propanol	92.(H8)	0.0005 M Spermine
93.(H9)	0.02 M Magnesium chloride hexahydrate	93.(H9)	0.05 M PIPES pH 7.5	93.(H9)	10% w/v 1,6-Hexanediol	93.(H9)	0.001 M Spermine
94.(H10)	0.01 M Magnesium chloride hexahydrate	94.(H10)	0.05 M HEPES sodium pH 7.5	94.(H10)	15% v/v (+/-)-2-Methyl-2,4-pentanediol	94.(H10)	0.0015 M Spermine
95.(H11)	0.2 M Calcium chloride dihydrate	95.(H11)	0.05 M HEPES sodium pH 7.5	95.(H11)	28% v/v Polyethylene glycol 400	95.(H11)	0.002 M Spermine
96.(H12)	0.002 M Copper(II) chloride dihydrate	96.(H12)	0.05 M TRIS hydrochloride pH 8.5	96.(H12)	1.8 M Lithium sulfate monohydrate	96.(H12)	0.0005 M Spermine

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

Natrix HT contains ninety-six unique reagents. To determine the formulation of each reagent, simply read across the page.



Solutions for Crystal Growth

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