

Helsinki Random Screen 1

The crystallization conditions of this screen are divided into three classes according to the main precipitant of the well. This helps in interpreting the results; by checking whether all the hits are in the same class of precipitant or whether hits are scored with different precipitants makes it easier to design new crystallization trials. The classes are

- 1) Viscous organic precipitants; in grey colour and marked with the letter **V**
- 2) Non-viscous organic precipitants; in pink and marked with the letter **N**
- 3) Salt precipitants; in turquoise and marked with the letter **S**

	Class	Well	Buffer	Salt Precipitant	Organic Precipitant
1	V	A1	0.1 M Sodium Acetate pH 4.6	0.02 M Calcium Chloride	30% MPD
2	V	A2	0.1 M Sodium Citrate pH 5.6	0.2 M Ammonium Acetate	30% PEG 4000
3	V	A3	0.1 M Tris pH 8.5	0.2 M Lithium Sulfate	30% PEG 4000
4	S	A4	0.1 M Imidazole pH 6.5	1.0 M Sodium Acetate	
5	S	A5		4.0 M Sodium Formate	
6	N	A6	0.1 M HEPES pH 7.5		10% iso-Propanol, 20% PEG 4000
7	V	A7		2.0 M Sodium Chloride	10% PEG 6000
8	S	A8	0.1 M Sodium Acetate pH 4.6	2.0 M Sodium Chloride	
9	N	A9	0.1 M Sodium Citrate pH 5.6		35% tert-Butanol
10	S	A10	0.1 M MES pH 6.5	1.8 M Ammonium Sulfate, 0.01 M Cobalt Chloride	
11	S	A11	0.1 M HEPES pH 7.5	2.0 M Ammonium Formate	
12	S	A12	0.1 M Tris pH 8.5	1.0 M Lithium Sulfate, 0.01 M Nickel (II) Chloride	
13	S	B1		0.4 M K, Na Tartrate	
14	V	B2	0.1 M Sodium Acetate pH 4.6	0.2 M Ammonium Acetate	30% PEG 4000
15	V	B3	0.1 M Sodium Cacodylate pH 6.5	0.2 M Magnesium Acetate	20% PEG 8000
16	V	B4	0.1 M Sodium Citrate pH 5.6	0.2 M Ammonium Acetate	30% MPD
17	S	B5	0.1 M Sodium Acetate pH 4.6	2.0 M Sodium Formate	
18	V	B6		0.05 M Potassium Phosphate	20% PEG 8000
19	S	B7		0.5 M Sodium Chloride 0.01 M Magnesium Chloride	0.01 M CTAB
20	V	B8	0.1 M Sodium Acetate pH 4.6	0.2 M Sodium Chloride	30% MPD
21	V	B9	0.1 M Sodium Citrate pH 5.6	0.01 M Ferric Chloride	10% Jeffamine M-600 pH 7.0
22	V	B10	0.1 M MES pH 6.5	0.2 M Ammonium Sulfate	30% PEG MME 5000
23	S	B11	0.1 M HEPES pH 7.5	1.0 M Sodium Acetate 0.05 M Cadmium Sulfate	
24	N	B12	0.1 M Tris pH 8.5	1.5 M Ammonium Sulfate	12% Glycerol
25	S	C1		0.4 M Ammonium Phosphate	
26	S	C2	0.1 M Sodium Citrate pH 5.6	1.0 M Ammonium Phosphate	
27	N	C3	0.1 M Tris pH 8.5	0.2 M Ammonium Acetate	30% iso-Propanol
28	N	C4	0.1 M HEPES pH 7.5	0.2 M Sodium Citrate	20% iso-Propanol
29	S	C5	0.1 M HEPES pH 7.5	1.6 M Na, K Phosphate	
30	V	C6			30% PEG 1500
31	N	C7			25% Ethylene Glycol
32	N	C8	0.1 M Sodium Acetate pH 4.6	0.01 M Cobalt Chloride	1.0 M 1,6 Hexanediol
33	N	C9	0.1 M Sodium Citrate pH 5.6		2.5 M 1,6 Hexanediol
34	V	C10	0.1 M MES pH 6.5	0.01 M Zinc Sulfate	25% PEG MME 550
35	V	C11	0.1 M HEPES pH 7.5		70% MPD
36	V	C12	0.1 M Tris pH 8.5	0.2 M Ammonium Phosphate	50% MPD

	Class	Well	Buffer	Salt	Precipitant	Organic	Precipitant
37	S	D1	0.1 M Tris pH 8.5	2.0 M Ammonium Sulfate			
38	N	D2	0.1 M HEPES pH 7.5	0.2 M Magnesium Chloride		30% iso-Propanol	
39	V	D3	0.1 M Sodium Acetate pH 4.6	0.2 M Ammonium Sulfate		25% PEG 4000	
40	V	D4	0.1 M Sodium Cacodylate pH 6.5	0.2 M Sodium Acetate		30% PEG 8000	
41	V	D5	0.1 M Tris pH 8.5			8% PEG 8000	
42	S	D6		0.2 M Magnesium Formate			
43	N	D7				35% Dioxane	
44	V	D8	0.1 M Sodium Acetate pH 4.6	0.1 M Cadmium Chloride		30% PEG 400	
45	S	D9	0.1 M MES pH 6.5	1.6 M Magnesium Sulfate			
46	S	D10		1.6 M Sodium Citrate			
47	S	D11	0.1 M HEPES pH 7.5	4.3 M Sodium Chloride			
48	N	D12	0.1 M Tris pH 8.5			20% Ethanol	
49	V	E1	0.1 M HEPES pH 7.5	0.2 M Sodium Citrate		30% MPD	
50	V	E2	0.1 M Tris pH 8.5	0.2 M Sodium Citrate		30% PEG 400	
51	V	E3	0.1 M Sodium Cacodylate pH 6.5	0.2 M Magnesium Acetate		30% MPD	
52	S	E4	0.1 M HEPES pH 7.5	0.8 M Sodium-Potassium Tartrate			
53	V	E5	0.1 M Sodium Acetate pH 4.6			8% PEG 4000	
54	V	E6	0.1 M Sodium Cacodylate pH 6.5	0.2 M Zinc Acetate		18% PEG 8000	
55	S	E7		2.0 M Ammonium Sulfate		5% iso-Propanol	
56	V	E8	0.1 M Sodium Acetate pH 4.6	0.2 M Ammonium Sulfate		30% PEG MME 2000	
57	S	E9	0.1 M MES pH 6.5	2.0 M Sodium Chloride, 0.2 M Na/K Phosphate			
58	V	E10	0.1 M HEPES pH 7.5	0.5 M Ammonium Sulfate		30% MPD	
59	V	E11	0.1 M HEPES pH 7.5			10% PEG 8000, 8% Ethylene Glycol	
60	V	E12	0.1 M Tris pH 8.5	0.01 M Nickel (II) Chloride		20% PEG MME 2000	
61	V	F1	0.1 M Tris pH 8.5	0.2 M Magnesium Chloride		30% PEG 4000	
62	V	F2	0.1 M HEPES pH 7.5	0.2 M Calcium Chloride		28% PEG 400	
63	V	F3	0.1 M Tris pH 8.5	0.2 M Sodium Acetate		30% PEG 4000	
64	V	F4		0.2 M Ammonium Sulfate		30% PEG 8000	
65	S	F5	0.1 M HEPES pH 7.5	1.4 M Sodium Citrate			
66	V	F6	0.1 M Sodium Cacodylate pH 6.5	0.2 M Calcium Acetate		18% PEG 8000	
67	N	F7				1.0 M Imidazole pH 7.0	
68	S	F8	0.1 M Sodium Citrate pH 5.6	2.0 M Ammonium Sulfate, 0.2 M K/Na Tartrate			
69	V	F9	0.1 M MES pH 6.5			12% PEG 20,000	
70	V	F10	0.1 M HEPES pH 7.5			10% PEG 6000, 5% MPD	
71	V	F11	0.1 M HEPES pH 7.5			20% PEG 10,000	
72	V	F12	0.1 M Bicine pH 9.0	0.1 M Sodium Chloride		20% PEG MME 550	
73	S	G1	0.1 M Sodium Cacodylate pH 6.5	1.4 M Sodium Acetate			
74	V	G2	0.1 M Sodium Cacodylate pH 6.5	0.2 M Ammonium Sulfate		30% PEG 8000	
75	V	G3	0.1 M HEPES pH 7.5	0.2 M Magnesium Chloride		30% PEG 400	
76	V	G4		0.2 M Ammonium Sulfate		30% PEG 4000	
77	S	G5	0.1 M HEPES pH 7.5	2.0 M Ammonium Sulfate		2% PEG 400	
78	S	G6	0.1 M Sodium Acetate pH 4.6	2.0 M Ammonium Sulfate			
79	V	G7				10% PEG 1000, 10% PEG 8000	
80	S	G8	0.1 M Sodium Citrate pH 5.6	1.0 M Lithium Sulfate, 0.5 M Ammonium Sulfate			
81	S	G9	0.1 M MES pH 6.5	1.6 M Ammonium Sulfate		10% Dioxane	
82	V	G10	0.1 M HEPES pH 7.5			20% Jeffamine M-600 pH 7.0	

	Class Well Buffer			Salt Precipitant	Organic Precipitant
83	N	G11	0.1 M Tris pH 8.5	0.02 M Magnesium Chloride	3.4 M 1,6-Hexanediol
84	S	G12	0.1 M Bicine pH 9.0	2.0 M Magnesium Chloride	
85	N	H1	0.1 M Sodium Cacodylate pH 6.5	0.1 M Sodium Citrate	30% iso-Propanol
86	S	H2	0.1 M HEPES pH 7.5	1.5 M Lithium Sulfate	
87	N	H3	0.1 M Sodium Acetate pH 4.6	0.2 M Calcium Chloride	20% iso-Propanol
88	S	H4		2.0 M Ammonium Sulfate	
89	N	H5	0.1 M Sodium Citrate pH 5.6		20% iso-Propanol, 20% PEG 4000
90	S	H6	0.1 M Tris pH 8.5	2.0 M Ammonium Phosphate	
91	N	H7		1.5 M Sodium Chloride	10% Ethanol
92	N	H8	0.1 M Sodium Citrate pH 5.6	0.5 M Sodium Chloride	2% Polyethyleneimine
93	V	H9	0.1 M MES pH 6.5	0.05 M Cesium Chloride	30% Jeffamine M-600
94	S	H10	0.1 M HEPES pH 7.5	1.6 M Ammonium Sulfate, 0.1 M Sodium Chloride	
95	N	H11	0.1 M Tris pH 8.5		25% tert-Butanol
96	V	H12	0.1 M Bicine pH 9.0		10% PEG 20,000, 2% Dioxane