

Helsinki Synergy Screen

The crystallisation conditions of this screen are divided into 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**

The concentration in parentheses is the stock solution in use

	Class	Well	Buffer	Precipitant	Salts or additives
1	S	A1	0.1 M Na Acetate (1.00M pH 5.50)	2 % PEG 400 (100.00%)	2 M NH4 Sulphate (3.00M)
2	S	A2	0.1M Imidazole (1.00M pH 6.50)	10 % Glycerol (80.00%)	2 M NH4 Sulphate (3.00M) 0.1 M Mg Sulphate (2.00M)
3	S	A3	0.1 M HEPES (1.00M pH 7.50)	1 % MPD (100.00%)	2 M NH4 Sulphate (3.00M)
4	S	A4	0.1 M Tris-HCl (1.00M pH 8.50)	5 % PEG 400 (100%)	2 M NH4 Sulphate (3.00M) 0.1 M Mg Sulphate (2.00M)
5	S	A5	0.1M Na Acetate (1.00M pH 5.50)	2 % PEG 400 (100.00%)	0.1M Mg Chloride (1.00M) 3.9 M Na Chloride (5.00M)
6	S	A6	0.1M Imidazole (1.00M pH 6.50)	5 % MPD (100.00%)	3 M Na Chloride (5.00M) 0.1 M Ca Chloride (1.00M)
7	S	A7	0.1M HEPES (1.00M pH 7.50)	5 % Isopropanol (100.00%)	4 M Na Chloride (5.00M)
8	S	A8	2.5 M Di-K phosphate/ NaH2 phosphate (3.00M pH 5.50)	5 % Isopropanol (100.00%)	
9	S	A9	2 M Di-K phosphate/ NaH2 phosphate (3.00M pH 6.50)	2 % PEG 400 (100.00%)	
10	V	A10	2.2 M Di-K phosphate/ NaH2 phosphate (3.00M pH 7.50)	20 % Glycerol (80.00%)	
11	V	A11	1 M Di-K phosphate/ NaH2 phosphate (3.00 M pH 8.50)	8 % MPD (100.00%)	
12	S	A12	2M Tri-NH4citrate/Citric acid(2.50M pH 4.50)	1 % MPD (100.00%)	
13	S	B1	2M Tri-NH4citrate/Citric acid(2.50M pH 6.50)	5 % Isopropanol (100.00%)	
14	S	B2	2M Tri-NH4citrate/Citric acid(2.50M pH 7.50)	5 % PEG 400 (100.00%)	
15	S	B3	0.1 M Na Acetate (1.00M pH 4.50)	5 % Isopropanol (100.00%)	0.1 M Mg Sulphate (2.00M) 2 M Lithium Sulphate (2.50M)
16	S	B4	0.1M Na Acetate (1.00M pH 5.50)	5 % PEG 400 (100.00%)	2 M Lithium Sulphate (2.50M) 0.1 M Mg Sulphate (2.00M)
17	S	B5	0.1M Imidazole (1.00M pH 6.50)	8 % MPD (100.00%)	2 M Lithium Sulphate (2.50M)
18	S	B6	0.1 M Tris-HCl (1.00M pH 8.50)	2 % PEG 400 (100.00%)	2 M Lithium Sulphate (2.50M)
19	V	B7	0.1 M Na Acetate (1.00M pH 4.50)	15 % MPD (100.00%)	1 M Lithium Sulphate (2.50M) 0.1 M Mg Sulphate (2.00M)
20	V	B8	0.75 M Tri-NH4 citr/Citric acid (2.50M pH 5.50)	25% MPD (100.00%)	
21	N	B9	0.1M Imidazole (1.00M pH 6.50)	12 % Isopropanol (100.00%)	1.5 M NH4 Sulphate (3.00M)
22	N	B10	0.1 M Imidazole (1.00M pH 6.50)	30 % Isopropanol (100.00%)	0.1 M Ca Chloride (1.00M) 1.3 Na Chloride (5.00M)
23	V	B11	0.1 M HEPES (1.00M pH 7.50)	10 % PEG 400 (100.00%)	4 M Na Chloride (5.00M)
24	V	B12	0.8 M Di-K phosphate/ NaH2 phosphate (3.00M pH 7.50)	20 % PEG 400 (100.00%)	
25	N	C1	1M Tri-NH4citrate/NH4OH(2.50M pH 8.50)	15 % Isopropanol (100.00%)	
26	S	C2	0.1 M Tris-HCl (1.00M pH 8.50)	15 % Isopropanol (100.00%) 2.5 % PEG 3350 (50.00%)	2 M Na Formate (5.00M)
27	V	C3	0.1 M Na Acetate (1.00M pH 4.50)	25 % PEG 1500 (50.00%) 30 % MPD (100.00%)	

	Class	Well	Buffer	Precipitant	Salts or additives
28	V	C4	0.1 M Na Acetate (1.00M pH 5.50)	30 % MPD (100.00%) 15 % PEG 8000 (50.00%)	0.1 M Ca Chloride (1.00M)
29	V	C5	0.1M Imidazole (1.00M pH 6.50)	10 % PEG 3350 (50.00%) 30 % MPD (100.00%)	0.2 M NH4 Sulphate (3.00M)
30	V	C6	0.1 M HEPES (1.00M pH 7.50)	30 % MPD (100.00%) 4 % PEG 1500 (50.00%)	
31	V	C7	0.1 M Tris-HCl (1.00M pH 8.50)	30 % MPD (100.00%) 8 % PEG 8000 (50.00%)	0.5 M Na Chloride (5.00M)
32	N	C8	0.1 M Na Acetate (1.00M pH 4.50)	30 % Isopropanol (100.00%) 4% PEG 3350 (50.00%)	0.1 M Ca Chloride (1.00M)
33	N	C9	0.1M Na Acetate (1.00M pH 5.50)	30 % Isopropanol (100.00%) 10 % PEG 1500 (50.00%)	0.2 M Lithium Sulphate (2.50M)
34	N	C10	0.1M Imidazole (1.00M pH 6.50)	40% Isopropanol (100.00%) 15% PEG 8000 (50.00%)	
35	N	C11	0.2M Tri-NH4citr/Citric acid(2.50M pH 7.50)	20% Isopropanol (100.00%) 15% PEG 3350 (50.00%)	
36	N	C12	0.1 M Tris-HCl (1.00M pH 8.50)	30% Isopropanol (100.00%) 30% PEG 3350 (50.00%)	
37	V	D1	0.1 M Na Acetate (1.00M pH 4.50)	40 % PEG 400 (100.00%) 20 % PEG 8000 (50.00%)	
38	V	D2	0.1M Na Acetate (1.00M pH 5.50)	40% PEG 3350 (50.00%) 5 % PEG 400 (100.00%)	
39	V	D3	0.15 M Di-K phosphate/ NaH2 phosphate (3.00M pH 6.50)	15 % PEG 1000 (50.00%) 40 % PEG 400 (100.00%)	
40	V	D4	0.1 M HEPES (1.00M pH 7.50)	40 % PEG 400 (100.00%) 8 % PEG 8000 (50.00%)	
41	V	D5	0.1 M Tris-HCl (1.00M pH 8.50)	20% PEG 3350 (50.00%) 25 % PEG 400 (100.00%)	0.1M Mg Chloride (1.00M)
42	V	D6	0.1M Na Acetate (1.00M pH 5.50)	3 % MPD (100.00%) 30% PEG 1500 (50.00%)	0.2 M Mg Sulphate (2.00M)
43	V	D7	0.1M Imidazole (1.00M pH 6.50)	10% Isopropanol (100.00%) 30% PEG 1500 (50.00%)	0.1 M Ca Chloride (1.00M)
44	V	D8	0.1 M HEPES (1.00M pH 7.50)	30% PEG 1500 (50.00%) 20 % PEG 400 (100.00%)	
45	V	D9	0.1 M Tris-HCl (1.00M pH 8.50)	8 % MPD (100.00%) 30% PEG 1500 (50.00%)	
46	V	D10	0.2 M Tri-NH4 citrate/Citric acid (2.50M pH 4.50)	15% Isopropanol (100.00%) 25% PEG 3350 (50.00%)	
47	V	D11	0.1M Na Acetate (1.00M pH 5.50)	25% PEG 3350 (50.00%) 5 % PEG 400 (100.00%)	
48	V	D12	0.1M Imidazole (1.00M pH 6.50)	15 % MPD (100.00%) 25 % PEG 3350	0.2 M Lithium Sulphate (2.50M)
49	V	E1	0.1 M HEPES (1.00M pH 7.50)	4 % Isopropanol (100.00%) 25% PEG 3350 (50.00%)	0.1 M Ca Chloride (1.00M)
50	V	E2	0.1M Na Acetate (1.00M pH 5.50)	10 % PEG 400 (100.00%) 20 % PEG 8000 (50.00%)	0.5 M Na Chloride (5.00M)
51	V	E3	0.1M Imidazole (1.00M pH 6.50)	3 % MPD (100.00%) 20 % PEG 8000 (50.00%)	
52	V	E4	0.1 M HEPES (1.00M pH 7.50)	10 % Isopropanol (100.00%) 20 % PEG 8000 (50.00%)	0.2 M NH4 Sulphate (3.00M)
53	V	E5	0.1 M Tris-HCl (1.00M pH 8.50)	20 % PEG 400 (100.00%) 20 % PEG 8000 (50.00%)	0.1M Mg Chloride (1.00M)
54	V	E6	0.1 M Na Acetate (1.00M pH 4.50)	20% PEG 3350 (50.00%)	0.1 M Ca Chloride 2 M Na Formate (5.00M)
55	V	E7	0.1 M Na Acetate (1.00M pH 4.50)	5 % Isopropanol (100.00%) 7.5% PEG 3350 (50.00%)	0.75 M NH4 Sulphate (3.00M)
56	S	E8	1M Tri-NH4 citr/Citric acid(2.50M pH 5.50)	1 % PEG 4000 (50.00%)	
57	V	E9	0.1M Na Acetate (1.00M pH 5.50)	1.5 % MPD (100.00%) 12 % PEG 1500 (50.00%)	2.5 M Na Chloride (5.00M)
58	V	E10	0.1M Imidazole (1.00M pH 6.50)	20% PEG 3350 (50.00%)	0.1M Mg Chloride (1.00M) 2 M Na Chloride (5.00M)
59	S	E11	0.1M Imidazole (1.00M pH 6.50)	4 % PEG 8000 (50.00%)	3 M Na Formate (5.00M)
60	V	E12	1M Di-K phosphate/ NaH2 phosphate (3.00M pH 7.50)	0.5 % PEG 4000 (50.00%)	
61	V	F1	1.4 M Di-K phosphate/ NaH2 phosphate (3.00M pH 7.50)	10% PEG 3350 (50.00%)	

	Class	Well	Buffer	Precipitant	Salts or additives
62	V	F2	0.8M Tri-NH4 citrate/NH4OH (2.50M pH 8.50)	2 % PEG 8000 (50.00%)	
63	V	F3	0.1 M Tris-HCl (1.00M pH 8.50)	5 % PEG 4000 (50.00%)	2 M Na Chloride (5.00M)
64	V	F4	0.5M Tri-NH4 citrate/NH4OH (2.50M pH 8.50)	15 % PEG 8000 (50.00%)	
65	S	F5	0.1 M Na Acetate (1.00M pH 5.50)	1.34 % PEG 400 (100.00%)	1.34 M NH4 Sulphate (3.00M)
66	S	F6	0.1M Imidazole (1.00M pH 6.50)	6.7 % Glycerol (80.00%)	1.34 M NH4 Sulphate (3.00M) 0.1 M Mg Sulphate (2.00M)
67	S	F7	0.1 M Tris-HCl (1.00M pH 8.50)	3.4 % PEG 400 (100.00%)	1.34 M NH4 Sulphate (3.00M) 0.1M Mg Chloride (1.00M)
68	S	F8	1M Imidazole (1.00M pH 6.50)	3.4 % MPD (100.00%)	0.1 M Ca Chloride (1.00M) 2 M Na Chloride (5.00M)
69	S	F9	1.7 M Di-K phosphate/ NaH2 phosphate (3.00M pH 5.50)	3.4% Isopropanol (100.00%)	
70	V	F10	1.7 M Di-K phosphate/ NaH2 phosphate (3.00M pH 7.50)	13.4 % Glycerol (80.00%)	
71	S	F11	1.34M Tri-NH4 citr/Citric acid(2.50M pH 4.50)	0.7 % MPD (100.00%)	
72	S	F12	1.34M Tri-NH4 citr/Citric acid(2.50M pH 6.50)	3.4% Isopropanol (100.00%)	
73	S	G1	0.1M Na Acetate (1.00M pH 5.50)	1.34 % PEG 400 (100.00%)	1.34M Lithium Sulphate (2.50M) 0.1 M Mg Sulphate (2.00M)
74	S	G2	0.1 M Tris-HCl (1.00M pH 8.50)	3.4 % PEG 400 (100.00%)	1.34 M Lithium Sulphate (2.50M)
75	V	G3	0.5M Tri-NH4 citr/Citric acid(2.50M pH 5.50)	17 % MPD (100.00%)	
76	N	G4	0.7M Tri-NH4 citrate/NH4OH (2.50M pH 8.50)	10% Isopropanol (100.00%)	
77	N	G5	0.1 M Tris-HCl (1.00M pH 8.50)	10% Isopropanol (100.00%) 1.7% PEG 3350 (50.00%)	1.34 M Na Formate (5.00M)
78	V	G6	0.1 M Na Acetate (1.00M pH 4.50)	20 % MPD (100.00%) 17 % PEG 1500 (50.00%)	
79	V	G7	0.1M Na Acetate (1.00M pH 5.50)	20 % MPD (100.00%) 10 % PEG 8000 (50.00%)	0.1 M Ca Chloride (1.00M)
80	N	G8	0.1 M Na Acetate (1.00M pH 4.50)	20% Isopropanol (100.00%) 2.7% PEG 3350 (50.00%)	0.1 M Ca Chloride (1.00M)
81	N	G9	0.1M Imidazole (1.00M pH 6.50)	27% Isopropanol (100.00%) 10 % PEG 8000 (50.00%)	
82	N	G10	0.2M Tri-NH4 citr/Citric acid (2.50M pH 7.50)	13.5% Isopropanol (100.00%) 10% PEG 3350 (50.00%)	
83	N	G11	0.1 M Tris-HCl (1.00M pH 8.50)	20% Isopropanol (100.00%) 20% PEG 3350 (50.00%)	
84	V	G12	0.1 M Na Acetate (1.00M pH 4.50)	27 % PEG 400 (100.00%) 13.5 % PEG 8000 (50.00%)	
85	V	H1	0.15 M Di-K phosphate/ NaH2 phosphate (3.00M pH 6.50)	10 % PEG 1000 (50.00%) 27 % PEG 400 (100.00%)	
86	V	H2	0.1M Na Acetate (1.00M pH 5.50)	2 % MPD (100.00%) 20 % PEG 1500 (50.00%)	0.2 M Mg Sulphate (2.00M)
87	V	H3	0.2 M Tri-NH4 citr/Citric acid (2.50M pH 4.50)	10% Isopropanol (100.00%) 17% PEG 3350 (50.00%)	
88	V	H4	0.1M Imidazole (1.00M pH 6.50)	10 % MPD (100.00%) 17% PEG 3350 (50.00%)	0.2 M Lithium Sulphate (2.50M)
89	V	H5	0.1 M HEPES (1.00M pH 7.50)	2.7% Isopropanol (100.00%) 17% PEG 3350 (50.00%)	0.1 M Ca Chloride (1.00M)
90	V	H6	0.1M Imidazole (1.00M pH 6.50)	2 % MPD (100.00%) 13.5 % PEG 8000 (50.00%)	
91	V	H7	0.1 M HEPES (1.00M pH 7.50)	7% Isopropanol (100.00%) 13.5 % PEG 8000 (50.00%)	0.2 M NH4 Sulphate (3.00M)
92	V	H8	0.1 M Na Acetate (1.00M pH 4.50)	17% PEG 3350 (50.00%)	0.1 M Ca Chloride (1.00M) 1.5 M Na Formate (5.00M)
93	V	H9	0.1 M Na Acetate (1.00M pH 4.50)	3.4% Isopropanol (100.00%) 5% PEG 3350 (50.00%)	0.5 M NH4 Sulphate (3.00M)
94	S	H10	0.1M Imidazole (1.00M pH 6.50)	2.7 % PEG 8000 (50.00%)	2 M Na Formate (5.00M)
95	V	H11	0.9 M Di-K phosphate/ NaH2 phosphate (3.00M pH 7.50)	7% PEG 3350 (50.00%)	
96	V	H12	0.3M Tri-NH4 citrate/NH4OH (2.50M pH 8.50)	10 % PEG 8000 (50.00%)	