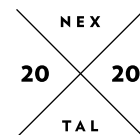


THE PACT SUITE

FOR SCREENING OF PROTEIN CRYSTALLIZATION CONDITIONS



The PACT Suite provides:

- A ready-to-use kit format to which only protein needs to be added, for easy and fast screening
- 96 precisely defined chemical solutions with different combinations of polyethylene glycol and ions to test the effect of anions and cations and pH on crystallization
- A composition of solutions based on the work of Newman et al (1)

The PACT Suite is available in 1 ml DWBlock and 10 ml tube formats.

The formulations of the 96 conditions of this screen, together with an order number for the 100 ml refill solution for each condition, are found on pages 2 and 3. Optimization reagent stock solutions for each NeXtal crystallization screen are available on our website. Please contact us with any questions about condition formulations or optimization.

1. Newman, J. et al., (2005) Acta. Cryst. D61, 1426.

 Fast, simple, consistent crystallography. **NO SURPRISES**



NeXtal

THE PACT SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	100 ml Refill SKU
1	A1		0.1M SPG buffer pH 4	25% w/v PEG 1500	135701-01
2	A2		0.1M SPG buffer pH 5	25% w/v PEG 1500	135701-02
3	A3		0.1M SPG buffer pH 6	25% w/v PEG 1500	135701-03
4	A4		0.1M SPG buffer pH 7	25% w/v PEG 1500	135701-04
5	A5		0.1M SPG buffer pH 8	25% w/v PEG 1500	135701-05
6	A6		0.1M SPG buffer pH 9	25% w/v PEG 1500	135701-06
7	A7	0.2M Sodium chloride	0.1M Sodium acetate pH 5	20% w/v PEG 6000	135701-07
8	A8	0.2M Ammonium chloride	0.1M Sodium acetate pH 5	20% w/v PEG 6000	135701-08
9	A9	0.2M Lithium chloride	0.1M Sodium acetate pH 5	20% w/v PEG 6000	135701-09
10	A10	0.2M Magnesium chloride	0.1M Sodium acetate pH 5	20% w/v PEG 6000	135701-10
11	A11	0.2M Calcium chloride	0.1M Sodium acetate pH 5	20% w/v PEG 6000	135701-11
12	A12	0.01M Zinc chloride	0.1M Sodium acetate pH 5	20% w/v PEG 6000	135701-12
13	B1		0.1M MIB buffer pH 4	25% w/v PEG 1500	135701-13
14	B2		0.1M MIB buffer pH 5	25% w/v PEG 1500	135701-14
15	B3		0.1M MIB buffer pH 6	25% w/v PEG 1500	135701-15
16	B4		0.1M MIB buffer pH 7	25% w/v PEG 1500	135701-16
17	B5		0.1M MIB buffer pH 8	25% w/v PEG 1500	135701-17
18	B6		0.1M MIB buffer pH 9	25% w/v PEG 1500	135701-18
19	B7	0.2M Sodium chloride	0.1M MES pH 6	20% w/v PEG 6000	135701-19
20	B8	0.2M Ammonium chloride	0.1M MES pH 6	20% w/v PEG 6000	135701-20
21	B9	0.2M Lithium chloride	0.1M MES pH 6	20% w/v PEG 6000	135701-21
22	B10	0.2M Magnesium chloride	0.1M MES pH 6	20% w/v PEG 6000	135701-22
23	B11	0.2M Calcium chloride	0.1M MES pH 6	20% w/v PEG 6000	135701-23
24	B12	0.01M Zinc chloride	0.1M MES pH 6	20% w/v PEG 6000	135701-24
25	C1		0.1M PCB buffer pH 4	25% w/v PEG 1500	135701-25
26	C2		0.1M PCB buffer pH 5	25% w/v PEG 1500	135701-26
27	C3		0.1M PCB buffer pH 6	25% w/v PEG 1500	135701-27
28	C4		0.1M PCB buffer pH 7	25% w/v PEG 1500	135701-28
29	C5		0.1M PCB buffer pH 8	25% w/v PEG 1500	135701-29
30	C6		0.1M PCB buffer pH 9	25% w/v PEG 1500	135701-30
31	C7	0.2M Sodium chloride	0.1M Hepes pH 7	20% w/v PEG 6000	135701-31
32	C8	0.2M Ammonium chloride	0.1M Hepes pH 7	20% w/v PEG 6000	135701-32
33	C9	0.2M Lithium chloride	0.1M Hepes pH 7	20% w/v PEG 6000	135701-33
34	C10	0.2M Magnesium chloride	0.1M Hepes pH 7	20% w/v PEG 6000	135701-34
35	C11	0.2M Calcium chloride	0.1M Hepes pH 7	20% w/v PEG 6000	135701-35
36	C12	0.01M Zinc chloride	0.1M Hepes pH 7	20% w/v PEG 6000	135701-36
37	D1		0.1M MMT buffer pH 4	25% w/v PEG 1500	135701-37
38	D2		0.1M MMT buffer pH 5	25% w/v PEG 1500	135701-38
39	D3		0.1M MMT buffer pH 6	25% w/v PEG 1500	135701-39
40	D4		0.1M MMT buffer pH 7	25% w/v PEG 1500	135701-40
41	D5		0.1M MMT buffer pH 8	25% w/v PEG 1500	135701-41
42	D6		0.1M MMT buffer pH 9	25% w/v PEG 1500	135701-42
43	D7	0.2M Sodium chloride	0.1M Tris pH 8	20% w/v PEG 6000	135701-43
44	D8	0.2M Ammonium chloride	0.1M Tris pH 8	20% w/v PEG 6000	135701-44
45	D9	0.2M Lithium chloride	0.1M Tris pH 8	20% w/v PEG 6000	135701-45
46	D10	0.2M Magnesium chloride	0.1M Tris pH 8	20% w/v PEG 6000	135701-46
47	D11	0.2M Calcium chloride	0.1M Tris pH 8	20% w/v PEG 6000	135701-47
48	D12		0.1M Tris pH 8	20% w/v PEG 6000	135701-48



THE PACT SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	100 ml Refill SKU
49	E1	0.2M Sodium fluoride		20% w/v PEG 3350	135701-49
50	E2	0.2M Sodium bromide		20% w/v PEG 3350	135701-50
51	E3	0.2M Sodium iodide		20% w/v PEG 3350	135701-51
52	E4	0.2M Potassium thiocyanate		20% w/v PEG 3350	135701-52
53	E5	0.2M Sodium nitrate		20% w/v PEG 3350	135701-53
54	E6	0.2M Sodium formate		20% w/v PEG 3350	135701-54
55	E7	0.2M Sodium acetate		20% w/v PEG 3350	135701-55
56	E8	0.2M Sodium sulphate		20% w/v PEG 3350	135701-56
57	E9	0.2M Potassium/sodium tartrate		20% w/v PEG 3350	135701-57
58	E10	0.2M Sodium/potassium phosphate		20% w/v PEG 3350	135701-58
59	E11	0.2M Sodium citrate		20% w/v PEG 3350	135701-59
60	E12	0.2M Sodium malonate		20% w/v PEG 3350	135701-60
61	F1	0.2M Sodium fluoride	0.1M Bis Tris propane pH 6.5	20% w/v PEG 3350	135701-61
62	F2	0.2M Sodium bromide	0.1M Bis Tris propane pH 6.5	20% w/v PEG 3350	135701-62
63	F3	0.2M Sodium iodide	0.1M Bis Tris propane pH 6.5	20% w/v PEG 3350	135701-63
64	F4	0.2M Potassium thiocyanate	0.1M Bis Tris propane pH 6.5	20% w/v PEG 3350	135701-64
65	F5	0.2M Sodium nitrate	0.1M Bis Tris propane pH 6.5	20% w/v PEG 3350	135701-65
66	F6	0.2M Sodium formate	0.1M Bis Tris propane pH 6.5	20% w/v PEG 3350	135701-66
67	F7	0.2M Sodium acetate	0.1M Bis Tris propane pH 6.5	20% w/v PEG 3350	135701-67
68	F8	0.2M Sodium sulphate	0.1M Bis Tris propane pH 6.5	20% w/v PEG 3350	135701-68
69	F9	0.2M Potassium/sodium tartrate	0.1M Bis Tris propane pH 6.5	20% w/v PEG 3350	135701-69
70	F10	0.2M Sodium/potassium phosphate	0.1M Bis Tris propane pH 6.5	20% w/v PEG 3350	135701-70
71	F11	0.2M Sodium citrate	0.1M Bis Tris propane pH 6.5	20% w/v PEG 3350	135701-71
72	F12	0.2M Sodium malonate	0.1M Bis Tris propane pH 6.5	20% w/v PEG 3350	135701-72
73	G1	0.2M Sodium fluoride	0.1M Bis Tris propane pH 7.5	20% w/v PEG 3350	135701-73
74	G2	0.2M Sodium bromide	0.1M Bis Tris propane pH 7.5	20% w/v PEG 3350	135701-74
75	G3	0.2M Sodium iodide	0.1M Bis Tris propane pH 7.5	20% w/v PEG 3350	135701-75
76	G4	0.2M Potassium thiocyanate	0.1M Bis Tris propane pH 7.5	20% w/v PEG 3350	135701-76
77	G5	0.2M Sodium nitrate	0.1M Bis Tris propane pH 7.5	20% w/v PEG 3350	135701-77
78	G6	0.2M Sodium formate	0.1M Bis Tris propane pH 7.5	20% w/v PEG 3350	135701-78
79	G7	0.2M Sodium acetate	0.1M Bis Tris propane pH 7.5	20% w/v PEG 3350	135701-79
80	G8	0.2M Sodium sulphate	0.1M Bis Tris propane pH 7.5	20% w/v PEG 3350	135701-80
81	G9	0.2M Potassium/sodium tartate	0.1M Bis Tris propane pH 7.5	20% w/v PEG 3350	135701-81
82	G10	0.2M Sodium/potassium phosphate	0.1M Bis Tris propane pH 7.5	20% w/v PEG 3350	135701-82
83	G11	0.2M Sodium citrate	0.1M Bis Tris propane pH 7.5	20% w/v PEG 3350	135701-83
84	G12	0.2M Sodium malonate	0.1M Bis Tris propane pH 7.5	20% w/v PEG 3350	135701-84
85	H1	0.2M Sodium fluoride	0.1M Bis Tris propane pH 8.5	20% w/v PEG 3350	135701-85
86	H2	0.2M Sodium bromide	0.1M Bis Tris propane pH 8.5	20% w/v PEG 3350	135701-86
87	H3	0.2M Sodium iodide	0.1M Bis Tris propane pH 8.5	20% w/v PEG 3350	135701-87
88	H4	0.2M Potassium thiocyanate	0.1M Bis Tris propane pH 8.5	20% w/v PEG 3350	135701-88
89	H5	0.2M Sodium nitrate	0.1M Bis Tris propane pH 8.5	20% w/v PEG 3350	135701-89
90	H6	0.2M Sodium formate	0.1M Bis Tris propane pH 8.5	20% w/v PEG 3350	135701-90
91	H7	0.2M Sodium acetate	0.1M Bis Tris propane pH 8.5	20% w/v PEG 3350	135701-91
92	H8	0.2M Sodium sulphate	0.1M Bis Tris propane pH 8.5	20% w/v PEG 3350	135701-92
93	H9	0.2M Potassium/sodium tartrate	0.1M Bis Tris propane pH 8.5	20% w/v PEG 3350	135701-93
94	H10	0.2M Sodium/potassium phosphate	0.1M Bis Tris propane pH 8.5	20% w/v PEG 3350	135701-94
95	H11	0.2M Sodium citrate	0.1M Bis Tris propane pH 8.5	20% w/v PEG 3350	135701-95
96	H12	0.2M Sodium malonate	0.1M Bis Tris propane pH 8.5	20% w/v PEG 3350	135701-96



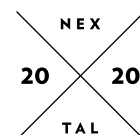
Fast, simple, consistent crystallography. **NO SURPRISES**



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Other NeXtal Crystallization Screens Available

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- The Classics Lite Suite
- The Classics II Suite
- The Cryos Suite
- The PEGs Suite
- The AmSO₄ Suite
- The MPD Suite
- The Anions Suite
- The Cations Suite
- The pHClear Suite
- The pHClear II Suite
- The MbClass Suite
- The MbClass II Suite
- The Protein Complex Suite
- The PEGs II Suite
- The CompAS Suite
- The PACT Suite
- The Nucleix Suite
- The JCSG+ Suite
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