

THE PEGS SUITE

FOR SCREENING OF PROTEIN CRYSTALLIZATION CONDITIONS



The PEGs 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 containing polyethylene glycol polymers as precipitant
- Solutions with polyethylene glycol of different molecular weight
- The promotion of protein-protein interactions through molecular crowding
- A first set of solutions (conditions 1-48) containing PEG in a wide range of molecular weights (200 up to 20,000), set at various concentrations and four different pH values
- A second set of solutions (conditions 49-96) containing PEG 3350 together with a wide spectrum of low concentration salts to analyze the effects of the PEG-salt combination on the protein
- The possibility to run the two sets of solutions after each other and get more information by adjusting the pH of the second set accordingly
- An intermediate step between results received from a PEG containing suite (e.g., The Classics Suite) and before a narrower refinement

The PEGs 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.

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



NeXtal

THE PEGS SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	100 ml Refill SKU
1	A1		0.1 M Sodium acetate pH 4.6	40% (v/v) PEG 200	134301-01
2	A2		0.1 M Sodium acetate pH 4.6	30% (v/v) PEG 300	134301-02
3	A3		0.1 M Sodium acetate pH 4.6	30% (v/v) PEG 400	134301-03
4	A4		0.1 M Sodium acetate pH 4.6	25% (v/v) PEG 550 MME	134301-04
5	A5		0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 1000	134301-05
6	A6		0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 2000 MME	134301-06
7	A7		0.1 M MES pH 6.5	40% (v/v) PEG 200	134301-07
8	A8		0.1 M MES pH 6.5	30% (v/v) PEG 300	134301-08
9	A9		0.1 M MES pH 6.5	30% (v/v) PEG 400	134301-09
10	A10		0.1 M MES pH 6.5	25% (v/v) PEG 550 MME	134301-10
11	A11		0.1 M MES pH 6.5	25% (w/v) PEG 1000	134301-11
12	A12		0.1 M MES pH 6.5	25% (w/v) PEG 2000 MME	134301-12
13	B1		0.1 M Sodium HEPES pH 7.5	40% (v/v) PEG 200	134301-13
14	B2		0.1 M Sodium HEPES pH 7.5	30% (v/v) PEG 300	134301-14
15	B3		0.1 M Sodium HEPES pH 7.5	30% (v/v) PEG 400	134301-15
16	B4		0.1 M Sodium HEPES pH 7.5	25% (v/v) PEG 550 MME	134301-16
17	B5		0.1 M Sodium HEPES pH 7.5	25% (w/v) PEG 1000	134301-17
18	B6		0.1 M Sodium HEPES pH 7.5	25% (w/v) PEG 2000 MME	134301-18
19	B7		0.1 M TRIS.HCl pH 8.5	40% (v/v) PEG 200	134301-19
20	B8		0.1 M TRIS.HCl pH 8.5	30% (v/v) PEG 300	134301-20
21	B9		0.1 M TRIS.HCl pH 8.5	30% (v/v) PEG 400	134301-21
22	B10		0.1 M TRIS.HCl pH 8.5	25% (v/v) PEG 550 MME	134301-22
23	B11		0.1 M TRIS.HCl pH 8.5	25% (w/v) PEG 1000	134301-23
24	B12		0.1 M TRIS.HCl pH 8.5	25% (w/v) PEG 2000 MME	134301-24
25	C1		0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 3000	134301-25
26	C2		0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 4000	134301-26
27	C3		0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 6000	134301-27
28	C4		0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 8000	134301-28
29	C5		0.1 M Sodium acetate pH 4.6	20% (w/v) PEG 10000	134301-29
30	C6		0.1 M Sodium acetate pH 4.6	15% (w/v) PEG 20000	134301-30
31	C7		0.1 M MES pH 6.5	25% (w/v) PEG 3000	134301-31
32	C8		0.1 M MES pH 6.5	25% (w/v) PEG 4000	134301-32
33	C9		0.1 M MES pH 6.5	25% (w/v) PEG 6000	134301-33
34	C10		0.1 M MES pH 6.5	25% (w/v) PEG 8000	134301-34
35	C11		0.1 M MES pH 6.5	20% (w/v) PEG 10000	134301-35
36	C12		0.1 M MES pH 6.5	15% (w/v) PEG 20000	134301-36
37	D1		0.1 M Sodium HEPES pH 7.5	25% (w/v) PEG 3000	134301-37
38	D2		0.1 M Sodium HEPES pH 7.5	25% (w/v) PEG 4000	134301-38
39	D3		0.1 M Sodium HEPES pH 7.5	25% (w/v) PEG 6000	134301-39
40	D4		0.1 M Sodium HEPES pH 7.5	25% (w/v) PEG 8000	134301-40
41	D5		0.1 M Sodium HEPES pH 7.5	20% (w/v) PEG 10000	134301-41
42	D6		0.1 M Sodium HEPES pH 7.5	15% (w/v) PEG 20000	134301-42
43	D7		0.1 M TRIS.HCl pH 8.5	25% (w/v) PEG 3000	134301-43
44	D8		0.1 M TRIS.HCl pH 8.5	25% (w/v) PEG 4000	134301-44
45	D9		0.1 M TRIS.HCl pH 8.5	25% (w/v) PEG 6000	134301-45
46	D10		0.1 M TRIS.HCl pH 8.5	25% (w/v) PEG 8000	134301-46
47	D11		0.1 M TRIS.HCl pH 8.5	20% (w/v) PEG 10000	134301-47
48	D12		0.1 M TRIS.HCl pH 8.5	15% (w/v) PEG 20000	134301-48



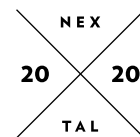
THE PEGS SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	100 ml Refill SKU
49	E1	0.2 M Sodium fluoride		20% (w/v) PEG 3350	134301-49
50	E2	0.2 M Potassium fluoride		20% (w/v) PEG 3350	134301-50
51	E3	0.2 M Ammonium fluoride		20% (w/v) PEG 3350	134301-51
52	E4	0.2 M Lithium chloride		20% (w/v) PEG 3350	134301-52
53	E5	0.2 M Magnesium chloride		20% (w/v) PEG 3350	134301-53
54	E6	0.2 M Sodium chloride		20% (w/v) PEG 3350	134301-54
55	E7	0.2 M Calcium chloride		20% (w/v) PEG 3350	134301-55
56	E8	0.2 M Potassium chloride		20% (w/v) PEG 3350	134301-56
57	E9	0.2 M Ammonium chloride		20% (w/v) PEG 3350	134301-57
58	E10	0.2 M Sodium iodide		20% (w/v) PEG 3350	134301-58
59	E11	0.2 M Potassium iodide		20% (w/v) PEG 3350	134301-59
60	E12	0.2 M Ammonium iodide		20% (w/v) PEG 3350	134301-60
61	F1	0.2 M Sodium thiocyanate		20% (w/v) PEG 3350	134301-61
62	F2	0.2 M Potassium thiocyanate		20% (w/v) PEG 3350	134301-62
63	F3	0.2 M Lithium nitrate		20% (w/v) PEG 3350	134301-63
64	F4	0.2 M Magnesium nitrate		20% (w/v) PEG 3350	134301-64
65	F5	0.2 M Sodium nitrate		20% (w/v) PEG 3350	134301-65
66	F6	0.2 M Potassium nitrate		20% (w/v) PEG 3350	134301-66
67	F7	0.2 M Ammonium nitrate		20% (w/v) PEG 3350	134301-67
68	F8	0.2 M Magnesium formate		20% (w/v) PEG 3350	134301-68
69	F9	0.2 M Sodium formate		20% (w/v) PEG 3350	134301-69
70	F10	0.2 M Potassium formate		20% (w/v) PEG 3350	134301-70
71	F11	0.2 M Ammonium formate		20% (w/v) PEG 3350	134301-71
72	F12	0.2 M Lithium acetate		20% (w/v) PEG 3350	134301-72
73	G1	0.2 M Magnesium acetate		20% (w/v) PEG 3350	134301-73
74	G2	0.2 M Zinc acetate		20% (w/v) PEG 3350	134301-74
75	G3	0.2 M Sodium acetate		20% (w/v) PEG 3350	134301-75
76	G4	0.2 M Calcium acetate		20% (w/v) PEG 3350	134301-76
77	G5	0.2 M Potassium acetate		20% (w/v) PEG 3350	134301-77
78	G6	0.2 M Ammonium acetate		20% (w/v) PEG 3350	134301-78
79	G7	0.2 M Lithium sulfate		20% (w/v) PEG 3350	134301-79
80	G8	0.2 M Magnesium sulfate		20% (w/v) PEG 3350	134301-80
81	G9	0.2 M Sodium sulfate		20% (w/v) PEG 3350	134301-81
82	G10	0.2 M Potassium sulfate		20% (w/v) PEG 3350	134301-82
83	G11	0.2 M Ammonium sulfate		20% (w/v) PEG 3350	134301-83
84	G12	0.2 M di-Sodium tartrate		20% (w/v) PEG 3350	134301-84
85	H1	0.2 M K/Na tartrate		20% (w/v) PEG 3350	134301-85
86	H2	0.2 M di-Ammonium tartrate		20% (w/v) PEG 3350	134301-86
87	H3	0.2 M Sodium phosphate		20% (w/v) PEG 3350	134301-87
88	H4	0.2 M di-Sodium phosphate		20% (w/v) PEG 3350	134301-88
89	H5	0.2 M Potassium phosphate		20% (w/v) PEG 3350	134301-89
90	H6	0.2 M di-Potassium phosphate		20% (w/v) PEG 3350	134301-90
91	H7	0.2 M Ammonium phosphate		20% (w/v) PEG 3350	134301-91
92	H8	0.2 M di-Ammonium phosphate		20% (w/v) PEG 3350	134301-92
93	H9	0.2 M tri-Lithium citrate		20% (w/v) PEG 3350	134301-93
94	H10	0.2 M tri-Sodium citrate		20% (w/v) PEG 3350	134301-94
95	H11	0.2 M tri-Potassium citrate		20% (w/v) PEG 3350	134301-95
96	H12	0.18 M tri-Ammonium citrate		20% (w/v) PEG 3350	134301-96



Other NeXtal Crystallization Screens Available

- The Classics Suite
- 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
- The JCSG Core I-IV Suites
- The Opti-Salts Suite



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

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