

# *THE PROTEIN COMPLEX SUITE*

**FOR SCREENING OF PROTEIN CRYSTALLIZATION CONDITIONS**



## **The Protein Complex Suite provides:**

- A ready-to-use kit format to which only protein needs to be added, for easy and fast screening
- Based on the work of Radaev and Sun (1)
- The best conditions from protein databanks and BMCD (2) for protein-protein complexes
- Ready-to-use pre-filled kits and bulk formats
- Maximized reproducibility through online access to production reports

The Protein Complex 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. Radaev, S., and Sun, P. (2002) Crystallization of protein-protein complexes, *J. Appl. Cryst.* 35, 674.
2. Gilliland, G.L., Tung, M., Blakeslee, D.M., and Ladner, J. (1994) The Biological Macromolecule Crystallization Database, Version 3.0: New Features, Data, and the NASA Archive for Protein Crystal Growth Data. *Acta Crystallogr.* D50 408.

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



**NeXtal**

## THE PROTEIN COMPLEX SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	100 ml Refill SKU
1	A1		0.1 M TRIS pH 8	25% (w/v) PEG 350 MME	135401-01
2	A2	0.1 Calcium acetate	0.1 M MES pH 6	15% (v/v) PEG 400	135401-02
3	A3	0.1 Lithium chloride	0.1 M HEPES pH 7.5	20% (v/v) PEG 400	135401-03
4	A4		0.1 M TRIS pH 8	25% (v/v) PEG 400	135401-04
5	A5		0.1 M MES pH 6.5	15% (w/v) PEG 550 MME	135401-05
6	A6	0.2 M Sodium chloride	0.1 M Na/K phosphate pH 6.5	25% (w/v) PEG 1000	135401-06
7	A7	0.1 M Ammonium sulfate	0.1 M TRIS pH 7.5	20% (w/v) PEG 1500	135401-07
8	A8	0.2 M Ammonium sulfate	0.1 M Sodium acetate pH 5.5	10% (w/v) PEG 2000 MME	135401-08
9	A9	0.2 M Sodium chloride	0.1 M MES pH 6	20% (w/v) PEG 2000 MME	135401-09
10	A10	0.1 M Potassium chloride	0.1 M TRIS pH 8	15% (w/v) PEG 2000 MME	135401-10
11	A11		0.1 M HEPES pH 7.5	25% (w/v) PEG 2000 MME	135401-11
12	A12	0.2 M Sodium acetate	0.1 M Sodium citrate pH 5.5	5% (w/v) PEG 4000	135401-12
13	B1	0.2 M Lithium sulfate	0.1 M TRIS pH 7.5	5% (w/v) PEG 4000	135401-13
14	B2	0.1 M Calcium acetate	0.1 M Sodium acetate pH 4.5	10% (w/v) PEG 4000	135401-14
15	B3	0.2 M Sodium acetate	0.1 M Sodium citrate pH 5.5	10% (w/v) PEG 4000	135401-15
16	B4	0.2 M Sodium chloride	0.1 M MES pH 6.5	10% (w/v) PEG 4000	135401-16
17	B5	0.1 M Magnesium chloride	0.1 M HEPES pH 7.5	10% (w/v) PEG 4000	135401-17
18	B6		0.1 M HEPES pH 7	10% (w/v) PEG 4000; 10% (v/v) Isopropanol	135401-18
19	B7	0.2 M Ammonium acetate	0.1 M Sodium acetate pH 4	15% (w/v) PEG 4000	135401-19
20	B8	0.1 M Magnesium chloride	0.1 M Sodium citrate pH 5	15% (w/v) PEG 4000	135401-20
21	B9		0.1 M Sodium cacodylate pH 6	15% (w/v) PEG 4000	135401-21
22	B10	0.15 M Ammonium sulfate	0.1 M MES pH 6	15% (w/v) PEG 4000	135401-22
23	B11		0.1 M HEPES pH 7	15% (w/v) PEG 4000	135401-23
24	B12	0.1 M Magnesium chloride	0.1 M HEPES pH 7	15% (w/v) PEG 4000	135401-24
25	C1	0.15 M Ammonium sulfate	0.1 M TRIS pH 8	15% (w/v) PEG 4000	135401-25
26	C2		0.1 M Sodium citrate pH 4.5	20% (w/v) PEG 4000	135401-26
27	C3	0.2 M Ammonium acetate	0.1 M Sodium acetate pH 5	20% (w/v) PEG 4000	135401-27
28	C4	0.2 M Lithium sulfate	0.1 M MES pH 6	20% (w/v) PEG 4000	135401-28
29	C5		0.1 M TRIS pH 8	20% (w/v) PEG 4000	135401-29
30	C6	0.15 M Ammonium sulfate	0.1 M HEPES pH 7	20% (w/v) PEG 4000	135401-30
31	C7		0.1 M Sodium citrate pH 5.6	20% (w/v) PEG 4000; 20% (v/v) Isopropanol	135401-31
32	C8	0.2 M Sodium chloride	0.1 M TRIS pH 8	20% (w/v) PEG 4000	135401-32
33	C9		0.1 M Sodium cacodylate pH 5.5	25% (w/v) PEG 4000	135401-33
34	C10	0.15 M Ammonium sulfate	0.1 M MES pH 5.5	25% (w/v) PEG 4000	135401-34
35	C11		0.1 M Sodium cacodylate pH 6.5	25% (w/v) PEG 4000	135401-35
36	C12	0.2 M Potassium iodide	0.1 M MES pH 6.5	25% (w/v) PEG 4000	135401-36
37	D1	0.2 M Sodium chloride	0.1 M HEPES pH 7.5	25% (w/v) PEG 4000	135401-37
38	D2		0.1 M MES pH 6.5	10% (w/v) PEG 5000 MME; 12% (v/v) 1-propanol	135401-38
39	D3	0.1 M Potassium chloride	0.1 M HEPES pH 7	15% (w/v) PEG 5000 MME	135401-39
40	D4	0.2 M Ammonium sulfate	0.1 M TRIS pH 7.5	20% (w/v) PEG 5000 MME	135401-40
41	D5	0.1 M Magnesium chloride	0.1 M MES pH 6	8% (w/v) PEG 6000	135401-41
42	D6	0.15 M Sodium chloride	0.1 M TRIS pH 8	8% (w/v) PEG 6000	135401-42
43	D7		0.1 M Sodium citrate pH 5.5	15% (w/v) PEG 6000	135401-43
44	D8	0.1 M Magnesium acetate	0.1 M Sodium cacodylate pH 6.5	15% (w/v) PEG 6000	135401-44
45	D9		0.1 M MES pH 6.5	15% (w/v) PEG 6000; 5% (v/v) MPD	135401-45
46	D10	0.1 M Potassium chloride	0.1 M HEPES pH 7.5	15% (w/v) PEG 6000	135401-46
47	D11		0.1 M TRIS pH 7.5	15% (w/v) PEG 6000	135401-47
48	D12		0.1 M TRIS pH 8.5	20% (w/v) PEG 6000	135401-48



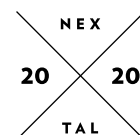
# THE PROTEIN COMPLEX SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	100 ml Refill SKU
49	E1	0.1 M Magnesium acetate	0.1 M Sodium acetate pH 4.5	8% (w/v) PEG 8000	135401-49
50	E2		0.1 M Sodium citrate pH 5	8% (w/v) PEG 8000	135401-50
51	E3	0.2 M Sodium chloride	0.1 M Sodium cacodylate pH 6	8% (w/v) PEG 8000	135401-51
52	E4		0.1 M HEPES pH 7	8% (w/v) PEG 8000	135401-52
53	E5		0.1 M TRIS pH 8	8% (w/v) PEG 8000	135401-53
54	E6	0.1 M Calcium acetate	0.1 M Sodium cacodylate pH 5.5	12% (w/v) PEG 8000	135401-54
55	E7		0.1 M Sodium dihydrogen phosphate pH 6.5	12% (w/v) PEG 8000	135401-55
56	E8	0.1 M Magnesium acetate	0.1 M MOPS pH 7.5	12% (w/v) PEG 8000	135401-56
57	E9	0.2 M Sodium chloride	0.1 M HEPES pH 7.5	12% (w/v) PEG 8000	135401-57
58	E10	0.2 M Ammonium sulfate	0.1 M TRIS pH 8.5	12% (w/v) PEG 8000	135401-58
59	E11		0.1 M Sodium citrate pH 5	20% (w/v) PEG 8000	135401-59
60	E12	0.2 M Ammonium sulfate	0.1 M MES pH 6.5	20% (w/v) PEG 8000	135401-60
61	F1		0.1 M HEPES pH 7	20% (w/v) PEG 8000	135401-61
62	F2	0.2 M Lithium chloride	0.1 M TRIS pH 8	20% (w/v) PEG 8000	135401-62
63	F3	0.1 M Magnesium acetate	0.1 M MES pH 6.5	10% (w/v) PEG 10000	135401-63
64	F4		0.1 M HEPES pH 7	18% (w/v) PEG 12000	135401-64
65	F5	0.1 M Sodium chloride	0.1 M TRIS pH 8	8% (w/v) PEG 20000	135401-65
66	F6		0.1 M HEPES pH 7	15% (w/v) PEG 20000	135401-66
67	F7		0.1 M MES pH 6.5	0.5 M Ammonium sulfate	135401-67
68	F8		0.1 M Sodium acetate pH 5	1 M Ammonium sulfate	135401-68
69	F9		0.1 M MES pH 6.5	1 M Ammonium sulfate	135401-69
70	F10		0.1 M TRIS pH 8	1 M Ammonium sulfate	135401-70
71	F11		0.1 M Sodium acetate pH 5	1.5 M Ammonium sulfate	135401-71
72	F12		0.1 M HEPES pH 7	1.5 M Ammonium sulfate	135401-72
73	G1		0.1 M TRIS pH 8	1.5 M Ammonium sulfate	135401-73
74	G2		0.1 M Sodium acetate pH 5	2 M Ammonium sulfate	135401-74
75	G3		0.1 M HEPES pH 7	2 M Ammonium sulfate	135401-75
76	G4		0.1 M TRIS pH 8	2 M Ammonium sulfate	135401-76
77	G5	1 M Potassium chloride	0.1 M HEPES pH 7	1 M Ammonium sulfate	135401-77
78	G6		0.1 M Sodium acetate pH 5	2 M Sodium formate	135401-78
79	G7		0.1 M TRIS pH 7.5	3 M Sodium formate	135401-79
80	G8			0.8 M Potassium/Sodium phosphate pH 7.5	135401-80
81	G9			1.3 M Potassium/Sodium phosphate pH 7.0	135401-81
82	G10			1.6 M Potassium/Sodium phosphate pH 6.5	135401-82
83	G11		0.1 M HEPES pH 7.5	1 M Sodium acetate	135401-83
84	G12		0.1 M HEPES pH 7	1 M Sodium citrate	135401-84
85	H1		0.1 M Sodium citrate pH 6	2 M Sodium chloride	135401-85
86	H2		0.1 M MES pH 6.5	1 M Lithium sulfate	135401-86
87	H3		0.1 M TRIS pH 8	1.6 M Lithium sulfate	135401-87
88	H4			1.4 M Sodium malonate pH 6.0	135401-88
89	H5		0.1 M TRIS pH 8	1.2 M Sodium/Potassium tartrate	135401-89
90	H6		0.1 M MES pH 6.5	1.6 M Magnesium sulfate	135401-90
91	H7		0.1 M Sodium acetate pH 5	15% (v/v) MPD; 2% (w/v) PEG 4000	135401-91
92	H8	0.05 M Calcium acetate	0.1 M Sodium cacodylate pH 6	25% (v/v) MPD	135401-92
93	H9		0.1 M Imidazole pH 7	50% (v/v) MPD	135401-93
94	H10	0.05 M Magnesium chloride	0.1 M MES pH 6.5	10% (v/v) Isopropanol; 5% (w/v) PEG 4000	135401-94
95	H11	0.2 M Ammonium acetate	0.1 M HEPES pH 7.5	25% (v/v) Isopropanol	135401-95
96	H12	0.1 M Sodium chloride	0.1 M TRIS pH 8	15% (v/v) Ethanol; 5% (v/v) MPD	135401-96



### Other NeXtal Crystallization Screens Available

- The Classics Suite
- The Classics Lite Suite
- The Classics II Suite
- The Cryos Suite
- The PEGs Suite
- The AmSO<sub>4</sub> 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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