

# *THE CLASSICS II SUITE*

**FOR SCREENING OF PROTEIN CRYSTALLIZATION CONDITIONS**



## **The Classics II Suite provides:**

- Ready-to-use pre-filled kits and bulk formats containing 96 screening solutions
- Ideal conditions for an initial screening to define crystallization conditions of a new protein
- A combination of sparse matrix and ionic sampling screening strategies
- Classic conditions with new reagent systems such as:
  - Neutralized organic acids, which have been proven to be highly effective crystallization reagents
  - High concentrations of salt combined with low concentrations of polymers

The Classics II 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 CLASSICS II SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	100 ml Refill SKU
1	A1		0.1 M Citric acid pH 3.5	2 M Ammonium sulfate	136101-1
2	A2		0.1 M Sodium acetate pH 4.5	2 M Ammonium sulfate	136101-2
3	A3		0.1 M Bis-Tris pH 5.5	2 M Ammonium sulfate	136101-3
4	A4		0.1 M Bis-Tris pH 6.5	2 M Ammonium sulfate	136101-4
5	A5		0.1 M HEPES pH 7.5	2 M Ammonium sulfate	136101-5
6	A6		0.1 M Tris pH 8.5	2 M Ammonium sulfate	136101-6
7	A7		0.1 M Citric acid pH 3.5	3 M Sodium chloride	136101-7
8	A8		0.1 M Sodium acetate pH 4.5	3 M Sodium chloride	136101-8
9	A9		0.1 M Bis-Tris pH 5.5	3 M Sodium chloride	136101-9
10	A10		0.1 M Bis-Tris pH 6.5	3 M Sodium chloride	136101-10
11	A11		0.1 M HEPES pH 7.5	3 M Sodium chloride	136101-11
12	A12		0.1 M Tris pH 8.5	3 M Sodium chloride	136101-12
13	B1	0.3 M Magnesium formate	0.1 M Bis-Tris pH 5.5		136101-13
14	B2	0.5 M Magnesium formate	0.1 M Bis-Tris pH 6.5		136101-14
15	B3	0.5 M Magnesium formate	0.1 M HEPES pH 7.5		136101-15
16	B4	0.3 M Magnesium formate	0.1 M Tris pH 8.5		136101-16
17	B5	1.26 M Sodium phosphate; 0.14 M Potassium phosphate			136101-17
18	B6	0.49 M Sodium phosphate; 0.91 M Potassium phosphate			136101-18
19	B7	0.056 M Sodium phosphate; 1.344 M Potassium phosphate			136101-19
20	B8		0.1 M HEPES pH 7.5	1.4 M Sodium citrate	136101-20
21	B9		1.8 M Ammonium citrate pH 7.0		136101-21
22	B10		0.8 M Succinic acid pH 7.0		136101-22
23	B11		2.1 M DL-Malic acid pH 7.0		136101-23
24	B12		2.8 M Sodium acetate pH 7.0		136101-24
25	C1		3.5 M Sodium formate pH 7.0		136101-25
26	C2		1.1 M Ammonium tartrate pH 7.0		136101-26
27	C3		2.4 M Sodium malonate pH 7.0		136101-27
28	C4		0.56 M Sodium citrate pH 7.0		136101-28
29	C5		0.96 M Sodium citrate pH 7.0		136101-29
30	C6	0.1 M Sodium chloride	0.1 M Bis-Tris pH 6.5	1.5 M Ammonium sulfate	136101-30
31	C7	0.8 M Sodium/Potassium tartrate	0.1 M Tris pH 8.5	0.5% (w/v) PEG 5000 MME	136101-31
32	C8	1 M Ammonium sulfate	0.1 M Bis-Tris pH 5.5	1% (w/v) PEG 3350	136101-32
33	C9	1.1 M Sodium malonate	0.1 M HEPES pH 7.0	0.5% (v/v) Jeffamine ED-2001	136101-33
34	C10	1 M Succinic acid	0.1 M HEPES pH 7.0	1% (w/v) PEG 2000 MME	136101-34
35	C11	1 M Ammonium sulfate	0.1 M HEPES pH 7.0	0.5% (w/v) PEG 8000	136101-35
36	C12	0.191 M Sodium citrate pH 7.0	0.1 M HEPES pH 7.0	2% (w/v) PEG 3350	136101-36
37	D1			25% (w/v) PEG 1500	136101-37
38	D2		0.1 M HEPES pH 7.0	30% (v/v) Jeffamine M-600	136101-38
39	D3		0.1 M HEPES pH 7.0	30% (v/v) Jeffamine ED-2001	136101-39
40	D4		0.1 M Citric acid pH 3.5	25% (w/v) PEG 3350	136101-40
41	D5		0.1 M Sodium acetate pH 4.5	25% (w/v) PEG 3350	136101-41
42	D6		0.1 M Bis-Tris pH 5.5	25% (w/v) PEG 3350	136101-42
43	D7		0.1 M Bis-Tris pH 6.5	25% (w/v) PEG 3350	136101-43
44	D8		0.1 M HEPES pH 7.5	25% (w/v) PEG 3350	136101-44
45	D9		0.1 M Tris pH 8.5	25% (w/v) PEG 3350	136101-45
46	D10		0.1 M Bis-Tris pH 6.5	20% (w/v) PEG 5000 MME	136101-46
47	D11		0.1 M Bis-Tris pH 6.5	28% (w/v) PEG 2000 MME	136101-47
48	D12	0.2 M Calcium chloride	0.1 M Bis-Tris pH 5.5	45% (v/v) MPD	136101-48



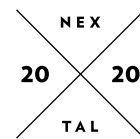
## THE CLASSICS II SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	100 ml Refill SKU
49	E1	0.2 M Calcium chloride	0.1 M Bis-Tris pH 6.5	45% (v/v) MPD	136101-49
50	E2	0.2 M Ammonium acetate	0.1 M Bis-Tris pH 5.5	45% (v/v) MPD	136101-50
51	E3	0.2 M Ammonium acetate	0.1 M Bis-Tris pH 6.5	45% (v/v) MPD	136101-51
52	E4	0.2 M Ammonium acetate	0.1 M HEPES pH 7.5	45% (v/v) MPD	136101-52
53	E5	0.2 M Ammonium acetate	0.1 M Tris pH 8.5	45% (v/v) MPD	136101-53
54	E6	0.05 M Calcium chloride	0.1 M Bis-Tris pH 6.5	30% (v/v) PEG 550 MME	136101-54
55	E7	0.05 M Magnesium chloride	0.1 M HEPES pH 7.5	30% (v/v) PEG 550 MME	136101-55
56	E8	0.2 M Potassium chloride	0.05 M HEPES pH 7.5	35% (v/v) Pentaerythritol propoxylate	136101-56
57	E9	0.05 M Ammonium sulfate	0.05 M Bis-Tris pH 6.5	30% (v/v) Pentaerythritol ethoxylate	136101-57
58	E10		0.1 M Bis-Tris pH 6.5	45% (v/v) PEG P 400	136101-58
59	E11	0.02 M Magnesium chloride	0.1 M HEPES pH 7.5	22% (w/v) Sodium Polyacrylate 5100	136101-59
60	E12	0.01 M Cobalt (II) chloride	0.1 M Tris pH 8.5	20% (w/v) PVP K15	136101-60
61	F1	0.2 M L-Proline	0.1 M HEPES pH 7.5	10% (w/v) PEG 3350	136101-61
62	F2	0.2 M Trimethylamine N-oxide	0.1 M Tris pH 8.5	20% (w/v) PEG 2000 MME	136101-62
63	F3	0.064 M Sodium citrate pH 7.0	0.1 M HEPES pH 7.0	10% (w/v) PEG 5000 MME	136101-63
64	F4	0.005 M Magnesium chloride; 0.005 M Cobalt chloride; 0.005 M Nickel chloride; 0.005 M Cadmium chloride	0.1 M HEPES pH 7.5	12% (w/v) PEG 3350	136101-64
65	F5	0.1 M Ammonium acetate	0.1 M Bis-Tris pH 5.5	17% (w/v) PEG 10000	136101-65
66	F6	0.2 M Ammonium sulfate	0.1 M Bis-Tris pH 5.5	25% (w/v) PEG 3350	136101-66
67	F7	0.2 M Ammonium sulfate	0.1 M Bis-Tris pH 6.5	25% (w/v) PEG 3350	136101-67
68	F8	0.2 M Ammonium sulfate	0.1 M HEPES pH 7.5	25% (w/v) PEG 3350	136101-68
69	F9	0.2 M Ammonium sulfate	0.1 M Tris pH 8.5	25% (w/v) PEG 3350	136101-69
70	F10	0.2 M Sodium chloride	0.1 M Bis-Tris pH 5.5	25% (w/v) PEG 3350	136101-70
71	F11	0.2 M Sodium chloride	0.1 M Bis-Tris pH 6.5	25% (w/v) PEG 3350	136101-71
72	F12	0.2 M Sodium chloride	0.1 M HEPES pH 7.5	25% (w/v) PEG 3350	136101-72
73	G1	0.2 M Sodium chloride	0.1 M Tris pH 8.5	25% (w/v) PEG 3350	136101-73
74	G2	0.2 M Lithium sulfate	0.1 M Bis-Tris pH 5.5	25% (w/v) PEG 3350	136101-74
75	G3	0.2 M Lithium sulfate	0.1 M Bis-Tris pH 6.5	25% (w/v) PEG 3350	136101-75
76	G4	0.2 M Lithium sulfate	0.1 M HEPES pH 7.5	25% (w/v) PEG 3350	136101-76
77	G5	0.2 M Lithium sulfate	0.1 M Tris pH 8.5	25% (w/v) PEG 3350	136101-77
78	G6	0.2 M Ammonium acetate	0.1 M Bis-Tris pH 5.5	25% (w/v) PEG 3350	136101-78
79	G7	0.2 M Ammonium acetate	0.1 M Bis-Tris pH 6.5	25% (w/v) PEG 3350	136101-79
80	G8	0.2 M Ammonium acetate	0.1 M HEPES pH 7.5	25% (w/v) PEG 3350	136101-80
81	G9	0.2 M Ammonium acetate	0.1 M Tris pH 8.5	25% (w/v) PEG 3350	136101-81
82	G10	0.2 M Magnesium chloride	0.1 M Bis-Tris pH 5.5	25% (w/v) PEG 3350	136101-82
83	G11	0.2 M Magnesium chloride	0.1 M Bis-Tris pH 6.5	25% (w/v) PEG 3350	136101-83
84	G12	0.2 M Magnesium chloride	0.1 M HEPES pH 7.5	25% (w/v) PEG 3350	136101-84
85	H1	0.2 M Magnesium chloride	0.1 M Tris pH 8.5	25% (w/v) PEG 3350	136101-85
86	H2	0.2 M Potassium Sodium tartrate		20% (w/v) PEG 3350	136101-86
87	H3		0.24 M Sodium malonate pH 7.0	20% (w/v) PEG 3350	136101-87
88	H4		0.2 M Ammonium citrate pH 7.0	20% (w/v) PEG 3350	136101-88
89	H5		0.1 M Succinic acid pH 7.0	15% (w/v) PEG 3350	136101-89
90	H6	0.2 M Sodium formate		20% (w/v) PEG 3350	136101-90
91	H7		0.15 M DL-Malic acid pH 7.0	20% (w/v) PEG 3350	136101-91
92	H8	0.1 M Magnesium formate		15% (w/v) PEG 3350	136101-92
93	H9	0.05 M Zinc acetate		20% (w/v) PEG 3350	136101-93
94	H10	0.2 M Sodium citrate		20% (w/v) PEG 3350	136101-94
95	H11	0.1 M Potassium thiocyanate		30% (w/v) PEG 2000 MME	136101-95
96	H12	0.15 M Potassium bromide		30% (w/v) PEG 2000 MME	136101-96



## 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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