

# *THE MBCLASS II SUITE*

**FOR SCREENING OF PROTEIN CRYSTALLIZATION CONDITIONS**



## **The MBClass II Suite provides:**

- A ready-to-use kit format to which only protein needs to be added, for easy and fast screening
- Perfect conditions for identification of membrane proteins
- 96 precisely defined chemical solutions containing the most successful conditions from literature

The MbClass 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 MBCLASS II SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	Final pH	100 ml Refill SKU
1	A1	0.1 M Lithium sulfate	0.1 M Sodium acetate pH 4.6	1.0M Ammonium phosphate	4.6	135101-01
2	A2		0.1 M tri-Sodium citrate pH 5.6	1.0M Ammonium phosphate	5.6	135101-02
3	H		0.1 M TRIS pH 8.5	2.0M Ammonium phosphate	8.5	135101-03
4	A4		0.1 M Sodium acetate pH 4.6	2.0 M Ammonium sulfate		135101-04
5	A5		0.1 M ADA pH 6.5	1.0 M Ammonium sulfate		135101-05
6	A6			2.0 M Ammonium sulfate		135101-06
7	A7		0.1 M TRIS pH 8.5	2.0 M Ammonium sulfate		135101-07
8	A8		0.1 M tri-Sodium citrate pH 5.5	2.5 M Ammonium sulfate		135101-08
9	A9		0.1 M MES pH 6.5	2.5 M Ammonium sulfate		135101-09
10	A10		0.1 M HEPES sodium salt pH 7.5	2.5 M Ammonium sulfate		135101-10
11	A11	2.0 M Ammonium sulfate	0.1 M HEPES sodium salt pH 7.5	2% (v/v) PEG 400		135101-11
12	A12	1.0 M di-Ammonium phosphate/Ammonium dihydrogen phosphate			6.5	135101-12
13	B1	0.5M di-Sodium phosphate; 0.1M Ammonium sulfate		0.5M di-Potassium phosphate	7.5	135101-13
14	B2		0.1 M TRIS pH 8.5	1.5 M Lithium sulfate		135101-14
15	B3		0.1 M HEPES sodium salt pH 7.5	1.5 M Lithium sulfate		135101-15
16	B4		0.1 M Sodium acetate pH 4.6	1.0 M Magnesium sulfate	4.6	135101-16
17	B5		0.1 M tri-Sodium citrate pH 5.6	1.0 M Magnesium sulfate	5.6	135101-17
18	B6	0.1 M Lithium sulfate	0.1 M ADA pH 6.5	1.0 M Magnesium sulfate	6.5	135101-18
19	B7	0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.5	30% (v/v) PEG 400		135101-19
20	B8		0.1 M MES pH 6.5	30% (v/v) PEG 400		135101-20
21	B9	0.1 M Sodium chloride	0.1 M MES pH 6.5	30% (v/v) PEG 400		135101-21
22	B10		0.1 M MOPS pH 7.0	30% (v/v) PEG 400		135101-22
23	B11	0.1 M Sodium chloride	0.1 M MOPS pH 7.0	30% (v/v) PEG 400		135101-23
24	B12		0.1 M HEPES sodium salt pH 7.5	30% (v/v) PEG 400		135101-24
25	C1	0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	30% (v/v) PEG 400		135101-25
26	C2	0.1 M Sodium chloride	0.1 M TRIS pH 8.5	30% (v/v) PEG 400		135101-26
27	C3	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 3.5	30% (v/v) PEG 400		135101-27
28	C4	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.5	30% (v/v) PEG 400		135101-28
29	C5	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M MES pH 6.5	30% (v/v) PEG 400		135101-29
30	C6	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	30% (v/v) PEG 400		135101-30
31	C7	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M TRIS pH 8.5	30% (v/v) PEG 400		135101-31
32	C8	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M CAPSO pH 9.5	30% (v/v) PEG 400		135101-32
33	C9	0.1M Magnesium chloride; 0.1M Sodium chloride	0.1 M Sodium acetate pH 4.5	30% (v/v) PEG 400		135101-33
34	C10	0.1M Magnesium chloride; 0.1M Sodium chloride	0.1 M tri-Sodium citrate pH 5.5	30% (v/v) PEG 400		135101-34
35	C11	0.1M Magnesium chloride; 0.1M Sodium chloride	0.1 M MES pH 6.5	30% (v/v) PEG 400		135101-35
36	C12	0.1M Magnesium chloride; 0.1M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	30% (v/v) PEG 400		135101-36
37	D1	0.1M Magnesium chloride; 0.1M Sodium chloride	0.1 M TRIS pH 8.5	30% (v/v) PEG 400		135101-37
38	D2	0.1M Magnesium chloride; 0.1M Sodium chloride	0.1 M CAPSO pH 9.5	30% (v/v) PEG 400		135101-38
39	D3	0.1 M Magnesium chloride	0.1 M Sodium acetate pH 4.6	30% (v/v) PEG 400		135101-39
40	D4	0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.6	30% (v/v) PEG 400	5.6	135101-40
41	D5	0.1 M Lithium sulfate	0.1 M tri-Sodium citrate pH 5.6	30% (v/v) PEG 400	5.6	135101-41
42	D6	0.3 M Lithium sulfate	0.1 M ADA pH 6.5	30% (v/v) PEG 400	6.5	135101-42
43	D7	0.1 M Magnesium chloride	0.1 M HEPES sodium salt pH 7.5	30% (v/v) PEG 400		135101-43
44	D8	0.1 M Ammonium sulfate	0.1 M HEPES sodium salt pH 7.5	30% (v/v) PEG 400		135101-44
45	D9	0.2 M tri-Sodium citrate	0.1 M TRIS pH 8.5	30% (v/v) PEG 400	8.5	135101-45
46	D10	0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.5	12% (w/v) PEG 4000		135101-46
47	D11		0.1 M MES pH 6.5	12% (w/v) PEG 4000		135101-47
48	D12	0.1 M Sodium chloride	0.1 M MES pH 6.5	12% (w/v) PEG 4000		135101-48



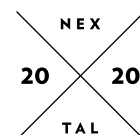
## THE MBCLASS II SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	Final pH	100 ml Refill SKU
49	E1		0.1 M MOPS pH 7.0	12% (w/v) PEG 4000		135101-49
50	E2	0.1 M Sodium chloride	0.1 M MOPS pH 7.0	12% (w/v) PEG 4000		135101-50
51	E3		0.1 M HEPES sodium salt pH 7.5	12% (w/v) PEG 4000		135101-51
52	E4	0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	12% (w/v) PEG 4000		135101-52
53	E5	0.1 M Sodium chloride	0.1 M TRIS pH 8.5	12% (w/v) PEG 4000		135101-53
54	E6	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M Sodium acetate pH 4.5	12% (w/v) PEG 4000		135101-54
55	E7	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.5	12% (w/v) PEG 4000		135101-55
56	E8	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M MES pH 6.5	12% (w/v) PEG 4000		135101-56
57	E9	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	12% (w/v) PEG 4000		135101-57
58	E10	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M TRIS pH 8.5	12% (w/v) PEG 4000		135101-58
59	E11	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M CAPSO pH 9.5	12% (w/v) PEG 4000		135101-59
60	E12	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 3.5	12% (w/v) PEG 4000		135101-60
61	F1	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.5	12% (w/v) PEG 4000		135101-61
62	F2	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M MES pH 6.5	12% (w/v) PEG 4000		135101-62
63	F3	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	12% (w/v) PEG 4000		135101-63
64	F4	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M TRIS pH 8.5	12% (w/v) PEG 4000		135101-64
65	F5	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M CAPSO pH 9.5	12% (w/v) PEG 4000		135101-65
66	F6	0.1 M Zinc acetate	0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 4000	4.6	135101-66
67	F7	0.2 M Ammonium sulfate	0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 4000		135101-67
68	F8		0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 4000		135101-68
69	F9	0.1 M Lithium sulfate	0.1 M tri-Sodium citrate pH 5.6	12% (w/v) PEG 4000	5.6	135101-69
70	F10	0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.6	12% (w/v) PEG 4000	5.6	135101-70
71	F11	0.1 M Lithium sulfate	0.1 M ADA pH 6.5	12% (w/v) PEG 4000		135101-71
72	F12	0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	12% (w/v) PEG 4000		135101-72
73	G1	0.1 M Ammonium sulfate	0.1 M HEPES sodium salt pH 7.5	12% (w/v) PEG 4000		135101-73
74	G2	0.2 M Magnesium chloride	0.1 M TRIS pH 8.5	12% (w/v) PEG 4000		135101-74
75	G3	0.2 M Lithium sulfate	0.1 M TRIS pH 8.5	12% (w/v) PEG 4000		135101-75
76	G4	0.2 M Ammonium sulfate		12% (w/v) PEG 4000		135101-76
77	G5	0.1 M Sodium chloride	0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 6000		135101-77
78	G6	0.1 M Magnesium chloride	0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 6000		135101-78
79	G7	0.1 M Magnesium chloride	0.1 M ADA pH 6.5	12% (w/v) PEG 6000	6.5	135101-79
80	G8	0.1 M di-Ammonium phosphate	0.1 M TRIS pH 8.5	12% (w/v) PEG 6000		135101-80
81	G9	1.0 M Lithium sulfate		2% (w/v) PEG 8000		135101-81
82	G10	0.2 M Sodium acetate	0.1 M MES pH 6.5	10% (w/v) PEG 8000		135101-82
83	G11	0.2 M Zinc acetate	0.1 M Imidazole pH 6.5	10% (w/v) PEG 8000		135101-83
84	G12	0.2 M Calcium acetate	0.1 M MES pH 6.5	10% (w/v) PEG 8000		135101-84
85	H1		0.1 M TRIS pH 8.5	10% (w/v) PEG 8000		135101-85
86	H2	0.2 M Ammonium sulfate		10% (w/v) PEG 8000		135101-86
87	H3	0.5 M Lithium sulfate		10% (w/v) PEG 8000		135101-87
88	H4		0.1 M HEPES sodium salt pH 7.5	1.5 M Potassium phosphate		135101-88
89	H5		0.1 M TRIS pH 8.5	1.5 M Potassium phosphate		135101-89
90	H6		0.1 M HEPES sodium salt pH 7.5	1.0 M Potassium/Sodium tartrate		135101-90
91	H7		0.1 M MES pH 6.5	1.4 M Sodium acetate		135101-91
92	H8		0.1 M HEPES sodium salt pH 7.5	1.4 M tri-Sodium citrate	7.5	135101-92
93	H9			2.0 M Sodium formate	4.6	135101-93
94	H10			4.0 M Sodium formate		135101-94
95	H11		0.1 M tri-Sodium citrate pH 5.5	1.5 M Sodium phosphate		135101-95
96	H12		0.1 M MES pH 6.5	1.5 M Sodium phosphate		135101-96



### 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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