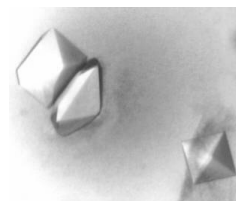


The MbClass Suite

For screening of protein crystallization conditions



The MbClass 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 Suite is available in a wide range of formats to suit all scales and throughputs.

EasyXtal Refill-Hit Solutions can be used to develop grids around the original hit conditions. An overview of the composition of the 96 solutions together with an order number for the corresponding Refill-Hit Solution can be found on pages 2 and 3. The location of each Refill-Hit Solution number is given in the diagram below.

Location of Refill-Hit Solutions in 24-Well and 96-Well Plate Formats

	1	2	3	4	5	6
A	1	2	3	4	5	6
B	7	8	9	10	11	12
C	13	14	15	16	17	18
D	19	20	21	22	23	24

24-well plate 1 of 4

	1	2	3	4	5	6
A	25	26	27	28	29	30
B	31	32	33	34	35	36
C	37	38	39	40	41	42
D	43	44	45	46	47	48

24-well plate 2 of 4

	1	2	3	4	5	6
A	49	50	51	52	53	54
B	55	56	57	58	59	60
C	61	62	63	64	65	66
D	67	68	69	70	71	72

24-well plate 3 of 4

	1	2	3	4	5	6
A	73	74	75	76	77	78
B	79	80	81	82	83	84
C	85	86	87	88	89	90
D	91	92	93	94	95	96

24-well plate 4 of 4

	1	2	3	4	5	6	7	8	9	10	11	12
A	1	2	3	4	5	6	7	8	9	10	11	12
B	13	14	15	16	17	18	19	20	21	22	23	24
C	25	26	27	28	29	30	31	32	33	34	35	36
D	37	38	39	40	41	42	43	44	45	46	47	48
E	49	50	51	52	53	54	55	56	57	58	59	60
F	61	62	63	64	65	66	67	68	69	70	71	72
G	73	74	75	76	77	78	79	80	81	82	83	84
H	85	86	87	88	89	90	91	92	93	94	95	96

96-well plate



The MbClass Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
1	0.1 M Sodium citrate	0.1 M Sodium citrate pH 5.6	10% (v/v) Isopropanol	135001
2	0.1 M Sodium chloride	0.1 M Sodium acetate pH 4.6	12% (v/v) Isopropanol	135002
3	0.2 M Calcium chloride	0.1 M Sodium acetate pH 4.6	30% (w/v) Isopropanol; 20% (w/v) Glycerol	135003
4		0.1 M Tris-HCl pH 8.5	0.5 M Ammonium sulfate	135004
5		1 M Sodium/Potassium phosphate pH 7.5	0.7 M Ammonium sulfate	135005
6		0.1 M ADA pH 6.5	1.0 M Ammonium sulfate	135006
7		0.1 M Tris-HCl pH 8.5	1.2 M Ammonium sulfate	135007
8	0.1 M Ammonium acetate		1.4 M Ammonium sulfate; 4% (w/v) Isopropanol	135008
9		0.1 M Sodium citrate pH 5.6	2.0 M Ammonium sulfate	135009
10	0.25 M Sodium chloride	0.05 M Na/K phosphate pH 7.5	3.5 M Ammonium sulfate	135010
11		0.1 M ADA pH 6.5	1.0 M di-Ammonium phosphate	135011
12	0.1 M Ammonium sulfate	0.1 M HEPES sodium salt pH 7.5	0.5 M di-Sodium phosphate; 0.5 M di-Potassium phosphate	135012
13	0.1 M di-Ammonium phosphate	0.1 M Tris-HCl pH 8.5	0.5 M di-Sodium phosphate; 0.5 M di-Potassium phosphate	135013
14	0.5 M Lithium chloride		1.0 M Sodium citrate pH 5.6	135014
15		0.1 M Tris-HCl pH 8.5	0.2 M Lithium sulfate	135015
16	0.1 M Potassium/Sodium tartrate	0.1 M Tris-HCl pH 8.5	0.4 M Magnesium sulfate	135016
17	0.1 M Magnesium chloride	0.1 M Sodium citrate pH 5.6	4% (v/v) MPD	135017
18	0.6 M Magnesium sulfate	0.1 M HEPES sodium salt pH 7.5	4% (v/v) MPD	135018
19	0.1 M Sodium chloride	0.1 M Sodium acetate pH 4.6	12% (v/v) MPD	135019
20	0.1 M Sodium chloride	0.1 M Sodium citrate pH 5.6	12% (v/v) MPD	135020
21		0.1 M ADA pH 6.5	12% (v/v) MPD	135021
22	0.1 M Sodium citrate	0.1 M HEPES sodium salt pH 7.5	12% (v/v) MPD	135022
23	0.1 M Lithium sulfate	0.1 M Tris-HCl pH 8.5	12% (v/v) MPD	135023
24	0.1 M Sodium chloride	0.1 M Tris-HCl pH 8.5	12% (v/v) MPD	135024
25		0.1 M Bis-Tris Propane pH 7.0	25% (w/v) MPD	135025
26		0.3 M Sodium citrate pH 5.6	30% (w/v) MPD	135026
27	0.1 M Lithium sulfate	0.1 M Sodium citrate pH 5.6	4% (v/v) PEG 400	135027
28	0.3 M Lithium sulfate	0.1 M ADA pH 6.5	4% (v/v) PEG 400	135028
29	0.6 M Magnesium sulfate	0.1 M HEPES sodium salt pH 7.5	4% (v/v) PEG 400	135029
30	0.1 M Sodium citrate	0.1 M Tris-HCl pH 8.5	5% (v/v) PEG 400	135030
31	0.2 M Calcium chloride	0.1 M HEPES sodium salt pH 7.5	15% (w/v) PEG 400; 15% (w/v) Glycerol	135031
32	0.1 M Magnesium chloride	0.1 M Sodium acetate pH 4.6	18% (v/v) PEG 400	135032
33	0.1 M Sodium chloride	0.1 M Sodium citrate pH 5.6	18% (v/v) PEG 400	135033
34	0.1 M Magnesium chloride	0.1 M HEPES sodium salt pH 7.5	18% (v/v) PEG 400	135034
35	0.1 M Ammonium sulfate	0.1 M HEPES sodium salt pH 7.5	18% (v/v) PEG 400	135035
36	0.05 M Magnesium acetate	0.05 M Sodium acetate pH 4.6	25% (w/v) PEG 400	135036
37	0.05 M Sodium sulfate; 0.05 M Lithium sulfate	0.05 M Tris-HCl pH 8.5	30% (w/v) PEG 400	135037
38	0.2 M Calcium chloride	0.1 M HEPES sodium salt pH 7.5	48% (w/v) PEG 400	135038
39		0.01 M Tris-HCl pH 7.5	20% (w/v) PEG 550 MME	135039
40	0.1 M Magnesium chloride	0.05 M Tris-HCl pH 8.5	30% (w/v) PEG 550 MME	135040
41			35% (w/v) PEG 600	135041
42	0.35 M Sodium chloride	0.1 M Tricine pH 8.0	28% (w/v) PEG 1000; 10% (w/v) Glycerol	135042
43	0.1 M Magnesium chloride; 0.1 M Sodium chloride		10% (w/v) PEG 1500; 5% (w/v) Ethanol	135043
44			5% (w/v) PEG 2000	135044
45	0.5 M Magnesium chloride	0.05 M Tris-HCl pH 8.5	10% (w/v) PEG 2000	135045
46	0.02 M Sodium citrate	0.1 M Sodium dihydrogen phosphate pH 6.2	15% (w/v) PEG 2000	135046
47	0.5 M Sodium chloride	0.1 M Sodium dihydrogen phosphate pH 6.8	15% (w/v) PEG 2000	135047
48		0.02 M Bis-Tris propane pH 7.0	15% (w/v) PEG 2000	135048

The MbClass Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
49	0.1 M Magnesium chloride	0.05 M HEPES sodium salt pH 7.5	15% (w/v) PEG 2000	135049
50			15% (w/v) PEG 2000	135050
51	0.1 M Lithium chloride		15% (w/v) PEG 2000	135051
52	0.3 M Magnesium nitrate	0.1 M Tris-HCl pH 8.0	20% (w/v) PEG 2000; 2% (w/v) MPD	135052
53	0.3 M Magnesium chloride	0.1 M Bicine pH 9.0	25% (w/v) PEG 2000; 15% (w/v) Glycerol	135053
54		0.1 M Sodium acetate pH 4.6	8% (w/v) PEG 2000 MME	135054
55		0.1 M Sodium citrate pH 5.6	10% (w/v) PEG 2000 MME; 3% (w/v) PEG 200; 20% (w/v) Glycerol	135055
56	0.5 M Sodium chloride	0.05 M Tris-HCl pH 7.5	12% (w/v) PEG 2000 MME	135056
57	0.15 M Sodium chloride	0.05 M Sodium citrate pH 5.6	10% (w/v) PEG 3350	135057
58		0.05 M Tris-HCl pH 7.5	2% (w/v) PEG 4000	135058
59	0.1 M Sodium chloride	0.05 M MES sodium salt pH 6.5	5% (w/v) PEG 4000; 10% (w/v) Glycerol	135059
60		0.05 M Sodium phosphate pH 6.7	5% (w/v) PEG 4000	135060
61			5% (w/v) PEG 4000	135061
62	0.1 M Potassium chloride		5% (w/v) PEG 4000	135062
63	0.2 M Ammonium sulfate	0.1 M Sodium acetate pH 4.6	10% (w/v) PEG 4000	135063
64	0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	10% (w/v) PEG 4000	135064
65	0.1 M Ammonium sulfate	0.1 M HEPES sodium salt pH 7.5	10% (w/v) PEG 4000	135065
66	0.5 M Sodium chloride	0.05 M Tris-HCl pH 8.5	10% (w/v) PEG 4000	135066
67	0.1 M Lithium sulfate	0.1 M ADA pH 6.5	12% (w/v) PEG 4000	135067
68	0.1 M Lithium sulfate	0.1 M ADA pH 6.5	12% (w/v) PEG 4000; 2% (v/v) Isopropanol	135068
69		0.05 M Sodium phosphate pH 6.8	12% (w/v) PEG 4000	135069
70	0.5 M Potassium chloride	0.05 M MOPS pH 7.0	12% (w/v) PEG 4000; 20% (w/v) Glycerol	135070
71	0.1 M Lithium chloride	0.01 M Tris-HCl pH 7.5	15% (w/v) PEG 4000	135071
72	0.5 M Sodium chloride	0.1 M Bis-Tris propane pH 7.0	20% (w/v) PEG 4000	135072
73	0.5 M Sodium chloride	0.1 M Sodium phosphate pH 7.0	20% (w/v) PEG 4000	135073
74	0.15 M Zinc acetate; 0.05 M Zinc chloride	0.05 M Tris-HCl pH 7.5	20% (w/v) PEG 4000	135074
75		0.05 M Tricine pH 8.0	22% (w/v) PEG 4000	135075
76	0.5 M Sodium chloride	0.05 M Tris-HCl pH 8.5	22% (w/v) PEG 4000	135076
77			30% (w/v) PEG 4000	135077
78	0.1 M Magnesium acetate	0.1 M Sodium citrate pH 5.6	10% (w/v) PEG 5000 MME	135078
79	0.1 M Magnesium sulfate		5% (w/v) PEG 6000	135079
80	0.15 M Zinc acetate; 0.05 M Zinc chloride	0.05 M Tris-HCl pH 7.5	10% (w/v) PEG 6000	135080
81	0.1 M Lithium sulfate	0.1 M Sodium citrate pH 5.6	12% (w/v) PEG 6000	135081
82	0.15 M Sodium chloride	0.1 M Tris-HCl pH 8.5	12% (w/v) PEG 6000	135082
83		0.05 M Sodium succinate pH 6.5	15% (w/v) PEG 6000	135083
84	0.025 M Potassium phosphate		12% (w/v) PEG 8000, 10% (w/v) MPD	135084
85	0.1 M Magnesium acetate	0.1 M Sodium citrate pH 5.6	8% (w/v) PEG 10000	135085
86			0.05 M Potassium phosphate pH 8.0	135086
87			1.5 M Potassium phosphate pH 7.0	135087
88	0.1 M Lithium sulfate	0.1 M HEPES sodium salt pH 7.5	0.1 M Potassium/Sodium tartrate	135088
89		0.1 M Tris-HCl pH 8.5	0.1 M Sodium acetate	135089
90		0.1 M Sodium citrate pH 5.6	0.1 M Sodium chloride	135090
91		0.1 M Tris-HCl pH 8.5	0.1 M Sodium chloride	135091
92		0.1 M Sodium acetate pH 4.6	1.5 M Sodium chloride	135092
93	0.1 M Sodium formate		2.0 M Sodium chloride	135093
94			0.1 M Sodium citrate pH 4.8	135094
95		0.1 M HEPES sodium salt pH 7.5	1.0 M Sodium citrate	135095
96			1.0 M Sodium citrate	135096

Protein Crystallization Suites and Formats

	EasyXtal Microplate	NeXtal Deep- Well Block	EasyXtal DG Tool X-Seal	NeXtal Tubes
The Classics Suite		■	■	■
The Classics Lite Suite		■	■	■
The Classics II Suite		■	■	■
The Cryos Suite		■	■	■
The PEGs Suite		■	■	■
The AmSO ₄ 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	■	■	■	
Pre-Screen Assay			■	

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