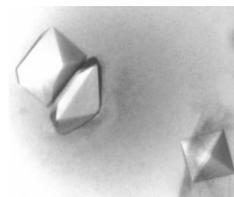


The MbClass II Suite

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 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 II Suite Composition Table

Number	Salt	Buffer	Precipitant	Final pH	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
1	0.1 M Lithium sulfate	0.1 M Sodium acetate pH 4.6	1.0 M Ammonium phosphate	4.6	135101
2		0.1 M tri-Sodium citrate pH 5.6	1.0 M Ammonium phosphate	5.6	135102
3		0.1 M Tris pH 8.5	2.0 M Ammonium phosphate	8.5	135103
4		0.1 M Sodium acetate pH 4.6	2.0 M Ammonium sulfate		135104
5		0.1 M ADA pH 6.5	1.0 M Ammonium sulfate		135105
6			2.0 M Ammonium sulfate		135106
7		0.1 M Tris pH 8.5	2.0 M Ammonium sulfate		135107
8		0.1 M tri-Sodium citrate pH 5.5	2.5 M Ammonium sulfate		135108
9		0.1 M MES pH 6.5	2.5 M Ammonium sulfate		135109
10		0.1 M HEPES sodium salt pH 7.5	2.5 M Ammonium sulfate		135110
11	2.0 M Ammonium sulfate	0.1 M HEPES sodium salt pH 7.5	2% (v/v) PEG 400		135111
12	1.0 M di-Ammonium phosphate/ Ammonium dihydrogen phosphate			6.5	135112
13	0.5 M di-Sodium phosphate; 0.1 M Ammonium sulfate		0.5 M di-Potassium phosphate	7.5	135113
14		0.1 M Tris pH 8.5	1.5 M Lithium sulfate		135114
15		0.1 M HEPES sodium salt pH 7.5	1.5 M Lithium sulfate		135115
16		0.1 M Sodium acetate pH 4.6	1.0 M Magnesium sulfate	4.6	135116
17		0.1 M tri-Sodium citrate pH 5.6	1.0 M Magnesium sulfate	5.6	135117
18	0.1 M Lithium sulfate	0.1 M ADA pH 6.5	1.0 M Magnesium sulfate	6.5	135118
19	0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.5	30% (v/v) PEG 400		135119
20		0.1 M MES pH 6.5	30% (v/v) PEG 400		135120
21	0.1 M Sodium chloride	0.1 M MES pH 6.5	30% (v/v) PEG 400		135121
22		0.1 M MOPS pH 7.0	30% (v/v) PEG 400		135122
23	0.1 M Sodium chloride	0.1 M MOPS pH 7.0	30% (v/v) PEG 400		135123
24		0.1 M HEPES sodium salt pH 7.5	30% (v/v) PEG 400		135124
25	0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	30% (v/v) PEG 400		135125
26	0.1 M Sodium chloride	0.1 M Tris pH 8.5	30% (v/v) PEG 400		135126
27	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 3.5	30% (v/v) PEG 400		135127
28	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.5	30% (v/v) PEG 400		135128
29	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M MES pH 6.5	30% (v/v) PEG 400		135129
30	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	30% (v/v) PEG 400		135130
31	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M Tris pH 8.5	30% (v/v) PEG 400		135131
32	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M CAPSO pH 9.5	30% (v/v) PEG 400		135132
33	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M Sodium acetate pH 4.5	30% (v/v) PEG 400		135133
34	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.5	30% (v/v) PEG 400		135134
35	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M MES pH 6.5	30% (v/v) PEG 400		135135
36	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	30% (v/v) PEG 400		135136
37	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M Tris pH 8.5	30% (v/v) PEG 400		135137
38	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M CAPSO pH 9.5	30% (v/v) PEG 400		135138
39	0.1 M Magnesium chloride	0.1 M Sodium acetate pH 4.6	30% (v/v) PEG 400		135139
40	0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.6	30% (v/v) PEG 400	5.6	135140
41	0.1 M Lithium sulfate	0.1 M tri-Sodium citrate pH 5.6	30% (v/v) PEG 400	5.6	135141
42	0.3 M Lithium sulfate	0.1 M ADA pH 6.5	30% (v/v) PEG 400	6.5	135142
43	0.1 M Magnesium chloride	0.1 M HEPES sodium salt pH 7.5	30% (v/v) PEG 400		135143
44	0.1 M Ammonium sulfate	0.1 M HEPES sodium salt pH 7.5	30% (v/v) PEG 400		135144
45	0.2 M tri-Sodium citrate	0.1 M Tris pH 8.5	30% (v/v) PEG 400	8.5	135145
46	0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.5	12% (w/v) PEG 4000		135146
47		0.1 M MES pH 6.5	12% (w/v) PEG 4000		135147
48	0.1 M Sodium chloride	0.1 M MES pH 6.5	12% (w/v) PEG 4000		135148

The MbClass II Suite Composition Table

Number	Salt	Buffer	Precipitant	Final pH	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
49		0.1 M MOPS pH 7.0	12% (w/v) PEG 4000		135149
50	0.1 M Sodium chloride	0.1 M MOPS pH 7.0	12% (w/v) PEG 4000		135150
51		0.1 M HEPES sodium salt pH 7.5	12% (w/v) PEG 4000		135151
52	0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	12% (w/v) PEG 4000		135152
53	0.1 M Sodium chloride	0.1 M Tris pH 8.5	12% (w/v) PEG 4000		135153
54	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M Sodium acetate pH 4.5	12% (w/v) PEG 4000		135154
55	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.5	12% (w/v) PEG 4000		135155
56	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M MES pH 6.5	12% (w/v) PEG 4000		135156
57	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	12% (w/v) PEG 4000		135157
58	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M Tris pH 8.5	12% (w/v) PEG 4000		135158
59	0.1 M Lithium sulfate; 0.1 M Sodium chloride	0.1 M CAPSO pH 9.5	12% (w/v) PEG 4000		135159
60	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 3.5	12% (w/v) PEG 4000		135160
61	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.5	12% (w/v) PEG 4000		135161
62	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M MES pH 6.5	12% (w/v) PEG 4000		135162
63	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	12% (w/v) PEG 4000		135163
64	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M Tris pH 8.5	12% (w/v) PEG 4000		135164
65	0.1 M Magnesium chloride; 0.1 M Sodium chloride	0.1 M CAPSO pH 9.5	12% (w/v) PEG 4000		135165
66	0.1 M Zinc acetate	0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 4000	4.6	135166
67	0.2 M Ammonium sulfate	0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 4000		135167
68		0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 4000		135168
69	0.1 M Lithium sulfate	0.1 M tri-Sodium citrate pH 5.6	12% (w/v) PEG 4000	5.6	135169
70	0.1 M Sodium chloride	0.1 M tri-Sodium citrate pH 5.6	12% (w/v) PEG 4000	5.6	135170
71	0.1 M Lithium sulfate	0.1 M ADA pH 6.5	12% (w/v) PEG 4000		135171
72	0.1 M Sodium chloride	0.1 M HEPES sodium salt pH 7.5	12% (w/v) PEG 4000		135172
73	0.1 M Ammonium sulfate	0.1 M HEPES sodium salt pH 7.5	12% (w/v) PEG 4000		135173
74	0.2 M Magnesium chloride	0.1 M Tris pH 8.5	12% (w/v) PEG 4000		135174
75	0.2 M Lithium sulfate	0.1 M Tris pH 8.5	12% (w/v) PEG 4000		135175
76	0.2 M Ammonium sulfate		12% (w/v) PEG 4000		135176
77	0.1 M Sodium chloride	0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 6000		135177
78	0.1 M Magnesium chloride	0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 6000		135178
79	0.1 M Magnesium chloride	0.1 M ADA pH 6.5	12% (w/v) PEG 6000	6.5	135179
80	0.1 M di-Ammonium phosphate	0.1 M Tris pH 8.5	12% (w/v) PEG 6000		135180
81	1.0 M Lithium sulfate		2% (w/v) PEG 8000		135181
82	0.2 M Sodium acetate	0.1 M MES pH 6.5	10% (w/v) PEG 8000		135182
83	0.2 M Zinc acetate	0.1 M Imidazole pH 6.5	10% (w/v) PEG 8000		135183
84	0.2 M Calcium acetate	0.1 M MES pH 6.5	10% (w/v) PEG 8000		135184
85		0.1 M Tris pH 8.5	10% (w/v) PEG 8000		135185
86	0.2 M Ammonium sulfate		10% (w/v) PEG 8000		135186
87	0.5 M Lithium sulfate		10% (w/v) PEG 8000		135187
88		0.1 M HEPES sodium salt pH 7.5	1.5 M Potassium phosphate		135188
89		0.1 M Tris pH 8.5	1.5 M Potassium phosphate		135189
90		0.1 M HEPES sodium salt pH 7.5	1.0 M Potassium/Sodium tartrate		135190
91		0.1 M MES pH 6.5	1.4 M Sodium acetate		135191
92		0.1 M HEPES sodium salt pH 7.5	1.4 M tri-Sodium citrate	7.5	135192
93			2.0 M Sodium formate	4.6	135193
94			4.0 M Sodium formate		135194
95		0.1 M tri-Sodium citrate pH 5.5	1.5 M Sodium phosphate		135195
96		0.1 M MES pH 6.5	1.5 M Sodium phosphate		135196

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			■	

Find out more and order EasyXtal and NeXtal products online at
www.qiagen.com/crystallization

Trademarks: QIAGEN® (QIAGEN Group) 1054300 08/2008 © 2008 QIAGEN, all rights reserved

www.qiagen.com

Australia ■ 1-800-243-800
Austria ■ 0800/281010
Belgium ■ 0800-79612
Canada ■ 800-572-9613
China ■ 0086 21 3865 3865
Denmark ■ 80-885945
Finland ■ 0800-914416

France ■ 01-60-920-930
Germany ■ 02103-29-12000
Hong Kong ■ 800 933 965
Ireland ■ 1800 555 049
Italy ■ 800 787980
Japan ■ 03-5547-0811
Korea (South) ■ 1544 7145
Luxembourg ■ 8002 2076

The Netherlands ■ 0800 0229592
Norway ■ 800-18859
Singapore ■ 65-67775366
Spain ■ 91-630-7050
Sweden ■ 020-790282
Switzerland ■ 055-254-22-11
UK ■ 01293-422-911
USA ■ 800-426-8157

