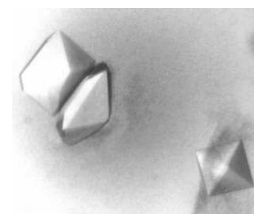


The CubicPhase II Suite

For screening of protein crystallization conditions



The CubicPhase II Suite provides:

- 96 precisely defined chemical solutions successfully tested for compatibility with Lipidic Cubic Phase and Sponge Phase experiments for membrane protein crystallization
- Systematic screening of different molecular weight PEGs versus pH

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 CubicPhase II Suite Composition Table

Number	Salt 1	Salt 2	Buffer	Precipitant 1	Precipitant 2	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
1			0.1 M Sodium acetate pH 4.6	4% (w/v) PEG 550 MME	2 M Sodium chloride	136701
2			0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 550 MME	0.2 M Sodium chloride	136702
3			0.1 M Sodium acetate pH 4.6	20% (w/v) PEG 550 MME		136703
4			0.1 M MES pH 5.8	4% (w/v) PEG 550 MME	2 M Sodium chloride	136704
5			0.1 M MES pH 5.8	12% (w/v) PEG 550 MME	0.2 M Sodium chloride	136705
6			0.1 M MES pH 5.8	20% (w/v) PEG 550 MME		136706
7			0.1 M HEPES pH 7.0	4% (w/v) PEG 550 MME	2 M Sodium chloride	136707
8			0.1 M HEPES pH 7.0	12% (w/v) PEG 550 MME	0.2 M Sodium chloride	136708
9			0.1 M HEPES pH 7.0	20% (w/v) PEG 550 MME		136709
10			0.1 M Tris pH 8.2	4% (w/v) PEG 550 MME	2 M Sodium chloride	136710
11			0.1 M Tris pH 8.2	12% (w/v) PEG 550 MME	0.2 M Sodium chloride	136711
12			0.1 M Tris pH 8.2	20% (w/v) PEG 550 MME		136712
13			0.1 M Sodium acetate pH 4.6	4% (w/v) PEG 550 MME	2 M Sodium malonate pH 4.6	136713
14			0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 550 MME	0.2 M Sodium malonate pH 4.6	136714
15	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M Sodium acetate pH 4.6	20% (w/v) PEG 550 MME		136715
16			0.1 M MES pH 5.8	4% (w/v) PEG 550 MME	1 M Sodium malonate pH 5.8	136716
17			0.1 M MES pH 5.8	12% (w/v) PEG 550 MME	0.2 M Sodium malonate pH 5.8	136717
18	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M MES pH 5.8	20% (w/v) PEG 550 MME		136718
19			0.1 M HEPES pH 7.0	4% (w/v) PEG 550 MME	1 M Sodium malonate pH 7.0	136719
20			0.1 M HEPES pH 7.0	12% (w/v) PEG 550 MME	0.2 M Sodium malonate pH 7.0	136720
21	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M HEPES pH 7.0	20% (w/v) PEG 550 MME		136721
22			0.1 M Tris pH 8.2	4% (w/v) PEG 550 MME	1 M Sodium malonate pH 7.0	136722
23			0.1 M Tris pH 8.2	12% (w/v) PEG 550 MME	0.2 M Sodium malonate pH 7.0	136723
24	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M Tris pH 8.2	20% (w/v) PEG 550 MME		136724
25			0.1 M Sodium acetate pH 4.6	4% (w/v) PEG 2000 MME	2 M Sodium chloride	136725
26			0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 2000 MME	0.2 M Sodium chloride	136726
27			0.1 M Sodium acetate pH 4.6	20% (w/v) PEG 2000 MME		136727
28			0.1 M MES pH 5.8	4% (w/v) PEG 2000 MME	2 M Sodium chloride	136728
29			0.1 M MES pH 5.8	12% (w/v) PEG 2000 MME	0.2 M Sodium chloride	136729
30			0.1 M MES pH 5.8	20% (w/v) PEG 2000 MME		136730
31			0.1 M HEPES pH 7.0	4% (w/v) PEG 2000 MME	2 M Sodium chloride	136731
32			0.1 M HEPES pH 7.0	12% (w/v) PEG 2000 MME	0.2 M Sodium chloride	136732
33			0.1 M HEPES pH 7.0	20% (w/v) PEG 2000 MME		136733
34			0.1 M Tris pH 8.2	4% (w/v) PEG 2000 MME	2 M Sodium chloride	136734
35			0.1 M Tris pH 8.2	12% (w/v) PEG 2000 MME	0.2 M Sodium chloride	136735
36			0.1 M Tris pH 8.2	20% (w/v) PEG 2000 MME		136736
37			0.1 M Sodium acetate pH 4.6	4% (w/v) PEG 2000 MME	2 M Sodium malonate pH 4.6	136737
38			0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 2000 MME	0.2 M Sodium malonate pH 4.6	136738
39	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M Sodium acetate pH 4.6	20% (w/v) PEG 2000 MME		136739
40			0.1 M MES pH 5.8	4% (w/v) PEG 2000 MME	2 M Sodium malonate pH 5.8	136740
41			0.1 M MES pH 5.8	12% (w/v) PEG 2000 MME	0.2 M Sodium malonate pH 5.8	136741
42	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M MES pH 5.8	20% (w/v) PEG 2000 MME		136742
43			0.1 M HEPES pH 7.0	4% (w/v) PEG 2000 MME	2 M Sodium malonate pH 7.0	136743
44			0.1 M HEPES pH 7.0	12% (w/v) PEG 2000 MME	0.2 M Sodium malonate pH 7.0	136744
45	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M HEPES pH 7.0	20% (w/v) PEG 2000 MME		136745
46			0.1 M Tris pH 8.2	4% (w/v) PEG 2000 MME	2 M Sodium malonate pH 7.0	136746
47			0.1 M Tris pH 8.2	12% (w/v) PEG 2000 MME	0.2 M Sodium malonate pH 7.0	136747
48	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M Tris pH 8.2	20% (w/v) PEG 2000 MME		136748

The CubicPhase II Suite Composition Table

Number	Salt 1	Salt 2	Buffer	Precipitant 1	Precipitant 2	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
49			0.1 M Sodium acetate pH 4.6	4% (w/v) PEG 3350	2 M Sodium chloride	136749
50			0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 3350	0.2 M Sodium chloride	136750
51			0.1 M Sodium acetate pH 4.6	20% (w/v) PEG 3350		136751
52			0.1 M MES pH 5.8	4% (w/v) PEG 3350	2 M Sodium chloride	136752
53			0.1 M MES pH 5.8	12% (w/v) PEG 3350	0.2 M Sodium chloride	136753
54			0.1 M MES pH 5.8	20% (w/v) PEG 3350		136754
55			0.1 M HEPES pH 7.0	4% (w/v) PEG 3350	2 M Sodium chloride	136755
56			0.1 M HEPES pH 7.0	12% (w/v) PEG 3350	0.2 M Sodium chloride	136756
57			0.1 M HEPES pH 7.0	20% (w/v) PEG 3350		136757
58			0.1 M Tris pH 8.2	4% (w/v) PEG 3350	2 M Sodium chloride	136758
59			0.1 M Tris pH 8.2	12% (w/v) PEG 3350	0.2 M Sodium chloride	136759
60			0.1 M Tris pH 8.2	20% (w/v) PEG 3350		136760
61			0.1 M Sodium acetate pH 4.6	4% (w/v) PEG 3350	2 M Sodium malonate pH 4.6	136761
62			0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 3350	0.2 M Sodium malonate pH 4.6	136762
63	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M Sodium acetate pH 4.6	20% (w/v) PEG 3350		136763
64			0.1 M MES pH 5.8	4% (w/v) PEG 3350	1 M Sodium malonate pH 5.8	136764
65			0.1 M MES pH 5.8	12% (w/v) PEG 3350	0.2 M Sodium malonate pH 5.8	136765
66	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M MES pH 5.8	20% (w/v) PEG 3350		136766
67			0.1 M HEPES pH 7.0	4% (w/v) PEG 3350	1 M Sodium malonate pH 7.0	136767
68			0.1 M HEPES pH 7.0	12% (w/v) PEG 3350	0.2 M Sodium malonate pH 7.0	136768
69	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M HEPES pH 7.0	20% (w/v) PEG 3350		136769
70			0.1 M Tris pH 8.2	4% (w/v) PEG 3350	1 M Sodium malonate pH 7.0	136770
71			0.1 M Tris pH 8.2	12% (w/v) PEG 3350	0.2 M Sodium malonate pH 7.0	136771
72	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M Tris pH 8.2	20% (w/v) PEG 3350		136772
73			0.1 M Sodium acetate pH 4.6	4% (w/v) PEG 6000	2 M Sodium chloride	136773
74			0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 6000	0.2 M Sodium chloride	136774
75			0.1 M Sodium acetate pH 4.6	20% (w/v) PEG 6000		136775
76			0.1 M MES pH 5.8	4% (w/v) PEG 6000	2 M Sodium chloride	136776
77			0.1 M MES pH 5.8	12% (w/v) PEG 6000	0.2 M Sodium chloride	136777
78			0.1 M MES pH 5.8	20% (w/v) PEG 6000		136778
79			0.1 M HEPES pH 7.0	4% (w/v) PEG 6000	2 M Sodium chloride	136779
80			0.1 M HEPES pH 7.0	12% (w/v) PEG 6000	0.2 M Sodium chloride	136780
81			0.1 M HEPES pH 7.0	20% (w/v) PEG 6000		136781
82			0.1 M Tris pH 8.2	4% (w/v) PEG 6000	2 M Sodium chloride	136782
83			0.1 M Tris pH 8.2	12% (w/v) PEG 6000	0.2 M Sodium chloride	136783
84			0.1 M Tris pH 8.2	20% (w/v) PEG 6000		136784
85			0.1 M Sodium acetate pH 4.6	4% (w/v) PEG 6000	1 M Sodium malonate pH 4.6	136785
86			0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 6000	0.2 M Sodium malonate pH 4.6	136786
87	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M Sodium acetate pH 4.6	20% (w/v) PEG 6000		136787
88			0.1 M MES pH 5.8	4% (w/v) PEG 6000	0.5 M Sodium malonate pH 5.8	136788
89			0.1 M MES pH 5.8	12% (w/v) PEG 6000	0.2 M Sodium malonate pH 5.8	136789
90	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M MES pH 5.8	20% (w/v) PEG 6000		136790
91			0.1 M HEPES pH 7.0	4% (w/v) PEG 6000	0.5 M Sodium malonate pH 7.0	136791
92			0.1 M HEPES pH 7.0	12% (w/v) PEG 6000	0.2 M Sodium malonate pH 7.0	136792
93	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M HEPES pH 7.0	20% (w/v) PEG 6000		136793
94			0.1 M Tris pH 8.2	4% (w/v) PEG 6000	2 M Sodium malonate pH 7.0	136794
95			0.1 M Tris pH 8.2	12% (w/v) PEG 6000	0.2 M Sodium malonate pH 7.0	136795
96	0.01 M Magnesium chloride	0.01 M Calcium chloride	0.1 M Tris pH 8.2	20% (w/v) PEG 6000		136796

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 CubicPhase I and II Suites		■	■	■
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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