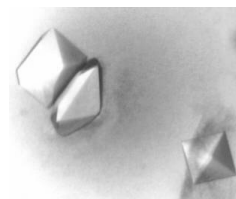


The CubicPhase I Suite

For screening of protein crystallization conditions



The CubicPhase I 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 salt concentration versus pH

The conditions are carefully set to pH values and systematically ordered. They fall into two categories: using phosphate buffer to set the pH, or buffered solutions with ammonium sulfate as precipitant.

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 I Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
1		0.6 M Na/K phosphate pH 4.6		136601
2		0.1 M Sodium acetate pH 4.6	0.8 M Ammonium sulfate	136602
3		1.0 M Ammonium phosphate pH 4.6		136603
4		1.2 M Na/K phosphate pH 4.6		136604
5		0.1 M Sodium acetate pH 4.6	1.4 M Ammonium sulfate	136605
6		1.6 M Ammonium phosphate pH 4.6		136606
7		1.8 M Na/K phosphate pH 4.6		136607
8		0.1 M Sodium acetate pH 4.6	2.0 M Ammonium sulfate	136608
9		2.2 M Ammonium phosphate pH 4.6		136609
10		2.4 M Na/K phosphate pH 4.6		136610
11		0.1 M Sodium acetate pH 4.6	2.6 M Ammonium sulfate	136611
12		2.8 M Ammonium phosphate pH 4.6		136612
13		0.6 M Na/K phosphate pH 5.2		136613
14		0.1 M Sodium acetate pH 5.2	0.8 M Ammonium sulfate	136614
15		1.0 M Ammonium phosphate pH 5.2		136615
16		1.2 M Na/K phosphate pH 5.2		136616
17		0.1 M Sodium acetate pH 5.2	1.4 M Ammonium sulfate	136617
18		1.6 M Ammonium phosphate pH 5.2		136618
19		1.8 M Na/K phosphate pH 5.2		136619
20		0.1 M Sodium acetate pH 5.2	2.0 M Ammonium sulfate	136620
21		2.2 M Ammonium phosphate pH 5.2		136621
22		2.4 M Na/K phosphate pH 5.2		136622
23		0.1 M Sodium acetate pH 5.2	2.6 M Ammonium sulfate	136623
24		2.8 M Ammonium phosphate pH 5.2		136624
25		0.6 M Na/K phosphate pH 5.8		136625
26		0.1 M MES pH 5.8	0.8 M Ammonium sulfate	136626
27		1.0 M Ammonium phosphate pH 5.8		136627
28		1.2 M Na/K phosphate pH 5.8		136628
29		0.1 M MES pH 5.8	1.4 M Ammonium sulfate	136629
30		1.6 M Ammonium phosphate pH 5.8		136630
31		1.8 M Na/K phosphate pH 5.8		136631
32		0.1 M MES pH 5.8	2.0 M Ammonium sulfate	136632
33		2.2 M Ammonium phosphate pH 5.8		136633
34		2.4 M Na/K phosphate pH 5.8		136634
35		0.1 M MES pH 5.8	2.6 M Ammonium sulfate	136635
36		2.8 M Ammonium phosphate pH 5.8		136636
37		0.6 M Na/K phosphate pH 6.4		136637
38		0.1 M MES pH 6.4	0.8 M Ammonium sulfate	136638
39		1.0 M Ammonium phosphate pH 6.4		136639
40		1.2 M Na/K phosphate pH 6.4		136640
41		0.1 M MES pH 6.4	1.4 M Ammonium sulfate	136641
42		1.6 M Ammonium phosphate pH 6.4		136642
43		1.8 M Na/K phosphate pH 6.4		136643
44		0.1 M MES pH 6.4	2.0 M Ammonium sulfate	136644
45		2.2 M Ammonium phosphate pH 6.4		136645
46		2.4 M Na/K phosphate pH 6.4		136646
47		0.1 M MES pH 6.4	2.6 M Ammonium sulfate	136647
48		2.8 M Ammonium phosphate pH 6.4		136648

The CubicPhase I Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
49		0.6 M Na/K phosphate pH 7.0		136649
50		0.1 M HEPES pH 7.0	0.8 M Ammonium sulfate	136650
51		1.0 M Ammonium phosphate pH 7.0		136651
52		1.2 M Na/K phosphate pH 7.0		136652
53		0.1 M HEPES pH 7.0	1.4 M Ammonium sulfate	136653
54		1.6 M Ammonium phosphate pH 7.0		136654
55		1.8 M Na/K phosphate pH 7.0		136655
56		0.1 M HEPES pH 7.0	2.0 M Ammonium sulfate	136656
57		2.2 M Ammonium phosphate pH 7.0		136657
58		2.4 M Na/K phosphate pH 7.0		136658
59		0.1 M HEPES pH 7.0	2.6 M Ammonium sulfate	136659
60		2.8 M Ammonium phosphate pH 7.0		136660
61		0.6 M Na/K phosphate pH 7.6		136661
62		0.1 M HEPES pH 7.6	0.8 M Ammonium sulfate	136662
63		1.0 M Ammonium phosphate pH 7.6		136663
64		1.2 M Na/K phosphate pH 7.6		136664
65		0.1 M HEPES pH 7.6	1.4 M Ammonium sulfate	136665
66		1.6 M Ammonium phosphate pH 7.6		136666
67		1.8 M Na/K phosphate pH 7.6		136667
68		0.1 M HEPES pH 7.6	2.0 M Ammonium sulfate	136668
69		2.2 M Ammonium phosphate pH 7.6		136669
70		2.4 M Na/K phosphate pH 7.6		136670
71		0.1 M HEPES pH 7.6	2.6 M Ammonium sulfate	136671
72		2.8 M Ammonium phosphate pH 7.6		136672
73		0.6 M Na/K phosphate pH 8.2		136673
74		0.1 M Tris pH 8.2	0.8 M Ammonium sulfate	136674
75		1.0 M Ammonium phosphate pH 8.2		136675
76		1.2 M Na/K phosphate pH 8.2		136676
77		0.1 M Tris pH 8.2	1.4 M Ammonium sulfate	136677
78		1.6 M Ammonium phosphate pH 8.2		136678
79		1.8 M Na/K phosphate pH 8.2		136679
80		0.1 M Tris pH 8.2	2.0 M Ammonium sulfate	136680
81		2.2 M Ammonium phosphate pH 8.2		136681
82		2.4 M Na/K phosphate pH 8.2		136682
83		0.1 M Tris pH 8.2	2.6 M Ammonium sulfate	136683
84		2.8 M Ammonium phosphate pH 8.2		136684
85		0.6 M Na/K phosphate pH 8.8		136685
86		0.1 M Tris pH 8.8	0.8 M Ammonium sulfate	136686
87		1.0 M Ammonium phosphate pH 8.8		136687
88		1.2 M Na/K phosphate pH 8.8		136688
89		0.1 M Tris pH 8.8	1.4 M Ammonium sulfate	136689
90		1.6 M Ammonium phosphate pH 8.8		136690
91		1.8 M Na/K phosphate pH 8.8		136691
92		0.1 M Tris pH 8.8	2.0 M Ammonium sulfate	136692
93		2.2 M Ammonium phosphate pH 8.8		136693
94		2.4 M Na/K phosphate pH 8.8		136694
95		0.1 M Tris pH 8.8	2.6 M Ammonium sulfate	136695
96		2.8 M Ammonium phosphate pH 8.8		136696

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			■	

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

Trademarks: QIAGEN® (QIAGEN Group) 1055577 12/2008 © 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

