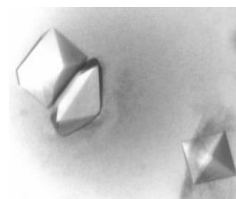


The PEGs II Suite

For screening of protein crystallization conditions



The PEGs II Suite provides:

- A ready-to-use kit format to which only protein needs to be added, for easy and fast screening
- 96 precisely defined chemical solutions containing polyethylene glycol polymers as precipitant
- Solutions with polyethylene glycol of different molecular weight
- The promotion of protein-protein interactions through molecular crowding

The PEGs 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	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	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	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 PEGs II Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
1	0.1 M Calcium chloride	0.1 M Sodium acetate pH 4.6	15% (w/v) PEG 400	135501
2		0.1 M MES pH 6.5	15% (w/v) PEG 400	135502
3	0.2 M Magnesium chloride	0.1 M HEPES pH 7.5	15% (w/v) PEG 400	135503
4	0.2 M tri-Sodium citrate	0.1 M Tris pH 8.5	15% (w/v) PEG 400	135504
5	0.1 M Magnesium chloride	0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 400	135505
6	0.2 M Lithium sulfate	0.1 M Tris pH 8.5	25% (w/v) PEG 400	135506
7	0.2 M Calcium chloride	0.1 M HEPES pH 7.5	28% (w/v) PEG 400	135507
8	0.1 M Calcium chloride	0.1 M Sodium acetate pH 4.6	30% (w/v) PEG 400	135508
9	0.1 M Sodium acetate	0.1 M MES pH 6.5	30% (w/v) PEG 400	135509
10	0.1 M Magnesium chloride	0.1 M MES pH 6.5	30% (w/v) PEG 400	135510
11	0.2 M Magnesium chloride	0.1 M HEPES pH 7.5	30% (w/v) PEG 400	135511
12	0.2 M tri-Sodium citrate	0.1 M Tris pH 8.5	30% (w/v) PEG 400	135512
13	0.1 M Sodium chloride	0.1 M Bicine pH 9.0	30% (w/v) PEG 550 MME	135513
14	0.01 M Zinc sulfate	0.1 M MES pH 6.5	25% (w/v) PEG 550 MME	135514
15		0.1 M HEPES pH 7.5	25% (w/v) PEG 1000	135515
16		0.1 M Tris pH 8.5	30% (w/v) PEG 1000	135516
17			15% (w/v) PEG 1500	135517
18		0.1 M HEPES pH 7.5	20% (w/v) PEG 1500	135518
19			30% (w/v) PEG 1500	135519
20	0.01 M Nickel chloride	0.1 M Tris pH 8.5	20% (w/v) PEG 2000 MME	135520
21			25% (w/v) PEG 2000 MME	135521
22	0.1 M Sodium acetate	0.1 M MES pH 6.5	30% (w/v) PEG 2000 MME	135522
23	0.2 M Sodium acetate	0.1 M HEPES pH 7.5	20% (w/v) PEG 3000	135523
24	0.2 M Lithium sulfate	0.1 M Tris pH 8.5	30% (w/v) PEG 3000	135524
25		0.1 M Sodium acetate pH 4.6	4% (w/v) PEG 4000	135525
26			8% (w/v) PEG 4000	135526
27		0.1 M Sodium acetate pH 4.6	8% (w/v) PEG 4000	135527
28	0.2 M Magnesium chloride	0.1 M MES pH 6.5	10% (w/v) PEG 4000	135528
29	0.1 M Sodium acetate	0.1 M HEPES pH 7.5	12% (w/v) PEG 4000	135529
30		0.1 M Tris pH 8.5	12% (w/v) PEG 4000	135530
31	0.2 M Lithium sulfate	0.1 M Tris pH 8.5	16% (w/v) PEG 4000	135531
32	0.2 M Sodium acetate	0.1 M Tris pH 8.5	16% (w/v) PEG 4000	135532
33	0.2 M Magnesium chloride	0.1 M Tris pH 8.5	16% (w/v) PEG 4000	135533
34		0.1 M Sodium acetate pH 4.6	18% (w/v) PEG 4000	135534
35	0.2 M Lithium sulfate	0.1 M Tris pH 8.5	20% (w/v) PEG 4000	135535
36	0.2 M Calcium chloride	0.1 M Tris pH 8.5	20% (w/v) PEG 4000	135536
37	0.1 M Sodium acetate	0.1 M HEPES pH 7.5	22% (w/v) PEG 4000	135537
38		0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 4000	135538
39	0.2 M Magnesium chloride	0.1 M MES pH 6.5	25% (w/v) PEG 4000	135539
40	0.2 M Calcium chloride	0.1 M Tris pH 8.5	25% (w/v) PEG 4000	135540
41			30% (w/v) PEG 4000	135541
42	0.1 M Magnesium chloride	0.1 M Sodium acetate pH 4.6	30% (w/v) PEG 4000	135542
43		0.1 M MES pH 6.5	30% (w/v) PEG 4000	135543
44	0.2 M Calcium chloride	0.1 M HEPES pH 7.5	30% (w/v) PEG 4000	135544
45	0.2 M Lithium sulfate	0.1 M Tris pH 8.5	30% (w/v) PEG 4000	135545
46	0.2 M Sodium acetate	0.1 M Tris pH 8.5	30% (w/v) PEG 4000	135546
47	0.2 M Magnesium chloride	0.1 M Tris pH 8.5	30% (w/v) PEG 4000	135547
48			35% (w/v) PEG 4000	135548

The PEGs II Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
49		0.1 M Tris pH 8.5	8% (w/v) PEG 4000; 0.8 M Lithium chloride	135549
50			10% (w/v) PEG 4000; 20% (w/v) Isopropanol	135550
51		0.1 M tri-Sodium citrate pH 5.6	10% (w/v) PEG 4000; 10% (w/v) Isopropanol	135551
52		0.1 M HEPES pH 7.5	10% (w/v) PEG 4000; 5% (w/v) Isopropanol	135552
53		0.1 M HEPES pH 7.5	10% (w/v) PEG 4000; 20% (w/v) Isopropanol	135553
54	0.2 M Ammonium sulfate	0.1 M Sodium acetate pH 4.6	12% (w/v) PEG 4000	135554
55	0.2 M Ammonium sulfate		15% (w/v) PEG 4000	135555
56	0.2 M Ammonium sulfate	0.1 M tri-Sodium citrate pH 5.6	15% (w/v) PEG 4000	135556
57	0.2 M Ammonium sulfate	0.1 M HEPES pH 7.5	16% (w/v) PEG 4000; 10% (w/v) Isopropanol	135557
58	0.2 M Ammonium sulfate		20% (w/v) PEG 4000	135558
59	0.2 M Magnesium sulfate		20% (w/v) PEG 4000; 10% (w/v) Glycerol	135559
60	0.1 M tri-Sodium citrate		20% (w/v) PEG 4000; 5% (w/v) Isopropanol	135560
61	0.1 M tri-Sodium citrate		20% (w/v) PEG 4000; 20% (w/v) Isopropanol	135561
62		0.1 M MES pH 6.5	20% (w/v) PEG 4000; 0.6 M Sodium chloride	135562
63		0.1 M HEPES pH 7.5	20% (w/v) PEG 4000; 10% (w/v) Isopropanol	135563
64	0.2 M Ammonium sulfate; 0.1 M Sodium acetate		22% (w/v) PEG 4000	135564
65	0.2 M Ammonium sulfate	0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 4000	135565
66	0.2 M Ammonium sulfate	0.1 M tri-Sodium citrate pH 5.6	25% (w/v) PEG 4000	135566
67	0.1 M Sodium acetate; 0.2M Lithium sulfate	0.1 M HEPES pH 7.5	25% (w/v) PEG 4000	135567
68	0.1 M Sodium acetate		25% (w/v) PEG 4000; 8% (w/v) Isopropanol	135568
69	0.2 M Ammonium sulfate		30% (w/v) PEG 4000	135569
70	0.2 M Ammonium sulfate	0.1 M Sodium acetate pH 4.6	30% (w/v) PEG 4000	135570
71	0.2 M Ammonium sulfate	0.1 M Sodium acetate pH 5.6	30% (w/v) PEG 4000	135571
72		0.1 M Tris pH 8.5	32% (w/v) PEG 4000; 0.8 M Lithium chloride	135572
73	0.2 M Lithium sulfate	0.1 M Tris pH 8.5	25% (w/v) PEG 5000 MME	135573
74	0.2 M Ammonium sulfate	0.1 M MES pH 6.5	30% (w/v) PEG 5000 MME	135574
75	0.1 M Potassium chloride	0.1 M Tris pH 8.5	3% (w/v) PEG 6000	135575
76	0.01 M Magnesium chloride		10% (w/v) PEG 6000	135576
77	2.0 M Sodium chloride		12% (w/v) PEG 6000	135577
78			15% (w/v) PEG 6000; 5% (w/v) Glycerol	135578
79	0.05 M Potassium chloride; 0.01 M Magnesium chloride		15% (w/v) PEG 6000	135579
80	0.01 M tri-Sodium citrate		16% (w/v) PEG 6000	135580
81		0.05 M Imidazole pH 8.0	20% (w/v) PEG 6000	135581
82	0.1 M Lithium chloride	0.1 M HEPES pH 7.5	25% (w/v) PEG 6000	135582
83	0.5 M Lithium chloride	0.1 M Tris pH 8.5	28% (w/v) PEG 6000	135583
84	1.0 M Lithium chloride; 0.1 M Sodium acetate		30% (w/v) PEG 6000	135584
85	0.01 M tri-Sodium citrate		33% (w/v) PEG 6000	135585
86	0.5 M Lithium sulfate		2% (w/v) PEG 8000	135586
87	1.0 M Lithium sulfate		2% (w/v) PEG 8000	135587
88			4% (w/v) PEG 8000	135588
89	0.2 M Lithium chloride; 0.05 M Magnesium sulfate		8% (w/v) PEG 8000	135589
90		0.1 M Tris pH 8.5	8% (w/v) PEG 8000	135590
91	0.2 M Zinc acetate	0.1M Imidazole pH 6.5	10% (w/v) PEG 8000	135591
92	0.2 M Calcium acetate	0.1 M HEPES pH 7.5	10% (w/v) PEG 8000	135592
93	0.05 M Magnesium acetate; 0.1 M Sodium acetate		10% (w/v) PEG 8000	135593
94	0.2 M Magnesium acetate		10% (w/v) PEG 8000	135594
95		0.1 M HEPES pH 7.5	10% (w/v) PEG 8000; 10% (w/v) Ethylene Glycol	135595
96			10% (w/v) PEG 8000; 10% (w/v) PEG 1000	135596

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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