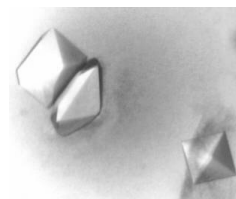


The PEGs Suite

For screening of protein crystallization conditions



The PEGs 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
- A first set of solutions (conditions 1–48) containing PEG in a wide range of molecular weights (200 up to 20,000), set at various concentrations and four different pH values
- A second set of solutions (conditions 49–96) containing PEG 3350 together with a wide spectrum of low concentration salts to analyze the effects of the PEG-salt combination on the protein
- The possibility to run the two sets of solutions after each other and get more information by adjusting the pH of the second set accordingly
- An intermediate step between results received from a PEG containing suite (e.g., The Classics Suite) and before a narrower refinement

The PEGs 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 Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
1		0.1 M Sodium acetate pH 4.6	40% (v/v) PEG 200	134301
2		0.1 M Sodium acetate pH 4.6	30% (v/v) PEG 300	134302
3		0.1 M Sodium acetate pH 4.6	30% (v/v) PEG 400	134303
4		0.1 M Sodium acetate pH 4.6	25% (v/v) PEG 550 MME	134304
5		0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 1000	134305
6		0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 2000 MME	134306
7		0.1 M MES pH 6.5	40% (v/v) PEG 200	134307
8		0.1 M MES pH 6.5	30% (v/v) PEG 300	134308
9		0.1 M MES pH 6.5	30% (v/v) PEG 400	134309
10		0.1 M MES pH 6.5	25% (v/v) PEG 550 MME	134310
11		0.1 M MES pH 6.5	25% (w/v) PEG 1000	134311
12		0.1 M MES pH 6.5	25% (w/v) PEG 2000 MME	134312
13		0.1 M Sodium HEPES pH 7.5	40% (v/v) PEG 200	134313
14		0.1 M Sodium HEPES pH 7.5	30% (v/v) PEG 300	134314
15		0.1 M Sodium HEPES pH 7.5	30% (v/v) PEG 400	134315
16		0.1 M Sodium HEPES pH 7.5	25% (v/v) PEG 550 MME	134316
17		0.1 M Sodium HEPES pH 7.5	25% (w/v) PEG 1000	134317
18		0.1 M Sodium HEPES pH 7.5	25% (w/v) PEG 2000 MME	134318
19		0.1 M TRIS-HCl pH 8.5	40% (v/v) PEG 200	134319
20		0.1 M TRIS-HCl pH 8.5	30% (v/v) PEG 300	134320
21		0.1 M TRIS-HCl pH 8.5	30% (v/v) PEG 400	134321
22		0.1 M TRIS-HCl pH 8.5	25% (v/v) PEG 550 MME	134322
23		0.1 M TRIS-HCl pH 8.5	25% (w/v) PEG 1000	134323
24		0.1 M TRIS-HCl pH 8.5	25% (w/v) PEG 2000 MME	134324
25		0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 3000	134325
26		0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 4000	134326
27		0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 6000	134327
28		0.1 M Sodium acetate pH 4.6	25% (w/v) PEG 8000	134328
29		0.1 M Sodium acetate pH 4.6	20% (w/v) PEG 10000	134329
30		0.1 M Sodium acetate pH 4.6	15% (w/v) PEG 20000	134330
31		0.1 M MES pH 6.5	25% (w/v) PEG 3000	134331
32		0.1 M MES pH 6.5	25% (w/v) PEG 4000	134332
33		0.1 M MES pH 6.5	25% (w/v) PEG 6000	134333
34		0.1 M MES pH 6.5	25% (w/v) PEG 8000	134334
35		0.1 M MES pH 6.5	20% (w/v) PEG 10000	134335
36		0.1 M MES pH 6.5	15% (w/v) PEG 20000	134336
37		0.1 M Sodium HEPES pH 7.5	25% (w/v) PEG 3000	134337
38		0.1 M Sodium HEPES pH 7.5	25% (w/v) PEG 4000	134338
39		0.1 M Sodium HEPES pH 7.5	25% (w/v) PEG 6000	134339
40		0.1 M Sodium HEPES pH 7.5	25% (w/v) PEG 8000	134340
41		0.1 M Sodium HEPES pH 7.5	20% (w/v) PEG 10000	134341
42		0.1 M Sodium HEPES pH 7.5	15% (w/v) PEG 20000	134342
43		0.1 M TRIS-HCl pH 8.5	25% (w/v) PEG 3000	134343
44		0.1 M TRIS-HCl pH 8.5	25% (w/v) PEG 4000	134344
45		0.1 M TRIS-HCl pH 8.5	25% (w/v) PEG 6000	134345
46		0.1 M TRIS-HCl pH 8.5	25% (w/v) PEG 8000	134346
47		0.1 M TRIS-HCl pH 8.5	20% (w/v) PEG 10000	134347
48		0.1 M TRIS-HCl pH 8.5	15% (w/v) PEG 20000	134348

The PEGs Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
49	0.2 M Sodium fluoride		20% (w/v) PEG 3350	134349
50	0.2 M Potassium fluoride		20% (w/v) PEG 3350	134350
51	0.2 M Ammonium fluoride		20% (w/v) PEG 3350	134351
52	0.2 M Lithium chloride		20% (w/v) PEG 3350	134352
53	0.2 M Magnesium chloride		20% (w/v) PEG 3350	134353
54	0.2 M Sodium chloride		20% (w/v) PEG 3350	134354
55	0.2 M Calcium chloride		20% (w/v) PEG 3350	134355
56	0.2 M Potassium chloride		20% (w/v) PEG 3350	134356
57	0.2 M Ammonium chloride		20% (w/v) PEG 3350	134357
58	0.2 M Sodium iodide		20% (w/v) PEG 3350	134358
59	0.2 M Potassium iodide		20% (w/v) PEG 3350	134359
60	0.2 M Ammonium iodide		20% (w/v) PEG 3350	134360
61	0.2 M Sodium thiocyanate		20% (w/v) PEG 3350	134361
62	0.2 M Potassium thiocyanate		20% (w/v) PEG 3350	134362
63	0.2 M Lithium nitrate		20% (w/v) PEG 3350	134363
64	0.2 M Magnesium nitrate		20% (w/v) PEG 3350	134364
65	0.2 M Sodium nitrate		20% (w/v) PEG 3350	134365
66	0.2 M Potassium nitrate		20% (w/v) PEG 3350	134366
67	0.2 M Ammonium nitrate		20% (w/v) PEG 3350	134367
68	0.2 M Magnesium formate		20% (w/v) PEG 3350	134368
69	0.2 M Sodium formate		20% (w/v) PEG 3350	134369
70	0.2 M Potassium formate		20% (w/v) PEG 3350	134370
71	0.2 M Ammonium formate		20% (w/v) PEG 3350	134371
72	0.2 M Lithium acetate		20% (w/v) PEG 3350	134372
73	0.2 M Magnesium acetate		20% (w/v) PEG 3350	134373
74	0.2 M Zinc acetate		20% (w/v) PEG 3350	134374
75	0.2 M Sodium acetate		20% (w/v) PEG 3350	134375
76	0.2 M Calcium acetate		20% (w/v) PEG 3350	134376
77	0.2 M Potassium acetate		20% (w/v) PEG 3350	134377
78	0.2 M Ammonium acetate		20% (w/v) PEG 3350	134378
79	0.2 M Lithium sulfate		20% (w/v) PEG 3350	134379
80	0.2 M Magnesium sulfate		20% (w/v) PEG 3350	134380
81	0.2 M Sodium sulfate		20% (w/v) PEG 3350	134381
82	0.2 M Potassium sulfate		20% (w/v) PEG 3350	134382
83	0.2 M Ammonium sulfate		20% (w/v) PEG 3350	134383
84	0.2 M di-Sodium tartrate		20% (w/v) PEG 3350	134384
85	0.2 M K/Na tartrate		20% (w/v) PEG 3350	134385
86	0.2 M di-Ammonium tartrate		20% (w/v) PEG 3350	134386
87	0.2 M Sodium phosphate		20% (w/v) PEG 3350	134387
88	0.2 M di-Sodium phosphate		20% (w/v) PEG 3350	134388
89	0.2 M Potassium phosphate		20% (w/v) PEG 3350	134389
90	0.2 M di-Potassium phosphate		20% (w/v) PEG 3350	134390
91	0.2 M Ammonium phosphate		20% (w/v) PEG 3350	134391
92	0.2 M di-Ammonium phosphate		20% (w/v) PEG 3350	134392
93	0.2 M tri-Lithium citrate		20% (w/v) PEG 3350	134393
94	0.2 M tri-Sodium citrate		20% (w/v) PEG 3350	134394
95	0.2 M tri-Potassium citrate		20% (w/v) PEG 3350	134395
96	0.18 M tri-Ammonium citrate		20% (w/v) PEG 3350	134396

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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