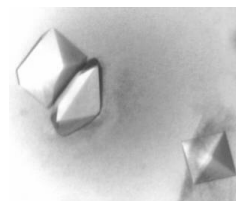


The Protein Complex Suite

For screening of protein crystallization conditions



The Protein Complex Suite provides:

- A ready-to-use kit format to which only protein needs to be added, for easy and fast screening
- Based on the work of Radaev and Sun (1)
- The best conditions from protein databanks and BMCD (2) for protein-protein complexes
- Ready-to-use pre-filled kits and bulk formats
- Maximized reproducibility through online access to production reports

The Protein Complex 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.

1. Radaev, S., and Sun, P. (2002) Crystallization of protein-protein complexes, *J. Appl. Cryst.* 35, 674.
2. Gilliland, G.L., Tung, M., Blakeslee, D.M., and Ladner, J. (1994) The Biological Macromolecule Crystallization Database, Version 3.0: New Features, Data, and the NASA Archive for Protein Crystal Growth Data. *Acta Crystallogr.* D50 408.

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 Protein Complex Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
1		0.1 M Tris pH 8	25% (w/v) PEG 350 MME	135401
2	0.1 Calcium acetate	0.1 M MES pH 6	15% (v/v) PEG 400	135402
3	0.1 Lithium chloride	0.1 M HEPES pH 7.5	20% (v/v) PEG 400	135403
4		0.1 M Tris pH 8	25% (v/v) PEG 400	135404
5		0.1 M MES pH 6.5	15% (w/v) PEG 550 MME	135405
6	0.2 M Sodium chloride	0.1 M Na/K phosphate pH 6.5	25% (w/v) PEG 1000	135406
7	0.1 M Ammonium sulfate	0.1 M Tris pH 7.5	20% (w/v) PEG 1500	135407
8	0.2 M Ammonium sulfate	0.1 M Sodium acetate pH 5.5	10% (w/v) PEG 2000 MME	135408
9	0.2 M Sodium chloride	0.1 M MES pH 6	20% (w/v) PEG 2000 MME	135409
10	0.1 M Potassium chloride	0.1 M Tris pH 8	15% (w/v) PEG 2000 MME	135410
11		0.1 M HEPES pH 7.5	25% (w/v) PEG 2000 MME	135411
12	0.2 M Sodium acetate	0.1 M Sodium citrate pH 5.5	5% (w/v) PEG 4000	135412
13	0.2 M Lithium sulfate	0.1 M Tris pH 7.5	5% (w/v) PEG 4000	135413
14	0.1 M Calcium acetate	0.1 M Sodium acetate pH 4.5	10% (w/v) PEG 4000	135414
15	0.2 M Sodium acetate	0.1 M Sodium citrate pH 5.5	10% (w/v) PEG 4000	135415
16	0.2 M Sodium chloride	0.1 M MES pH 6.5	10% (w/v) PEG 4000	135416
17	0.1 M Magnesium chloride	0.1 M HEPES pH 7.5	10% (w/v) PEG 4000	135417
18		0.1 M HEPES pH 7	10% (w/v) PEG 4000; 10% (v/v) Isopropanol	135418
19	0.2 M Ammonium acetate	0.1 M Sodium acetate pH 4	15% (w/v) PEG 4000	135419
20	0.1 M Magnesium chloride	0.1 M Sodium citrate pH 5	15% (w/v) PEG 4000	135420
21		0.1 M Sodium cacodylate pH 6	15% (w/v) PEG 4000	135421
22	0.15 M Ammonium sulfate	0.1 M MES pH 6	15% (w/v) PEG 4000	135422
23		0.1 M HEPES pH 7	15% (w/v) PEG 4000	135423
24	0.1 M Magnesium chloride	0.1 M HEPES pH 7	15% (w/v) PEG 4000	135424
25	0.15 M Ammonium sulfate	0.1 M Tris pH 8	15% (w/v) PEG 4000	135425
26		0.1 M Sodium citrate pH 4.5	20% (w/v) PEG 4000	135426
27	0.2 M Ammonium acetate	0.1 M Sodium acetate pH 5	20% (w/v) PEG 4000	135427
28	0.2 M Lithium sulfate	0.1 M MES pH 6	20% (w/v) PEG 4000	135428
29		0.1 M Tris pH 8	20% (w/v) PEG 4000	135429
30	0.15 M Ammonium sulfate	0.1 M HEPES pH 7	20% (w/v) PEG 4000	135430
31		0.1 M Sodium citrate pH 5.6	20% (w/v) PEG 4000; 20% (v/v) Isopropanol	135431
32	0.2 M Sodium chloride	0.1 M Tris pH 8	20% (w/v) PEG 4000	135432
33		0.1 M Sodium cacodylate pH 5.5	25% (w/v) PEG 4000	135433
34	0.15 M Ammonium sulfate	0.1 M MES pH 5.5	25% (w/v) PEG 4000	135434
35		0.1 M Sodium cacodylate pH 6.5	25% (w/v) PEG 4000	135435
36	0.2 M Potassium iodide	0.1 M MES pH 6.5	25% (w/v) PEG 4000	135436
37	0.2 M Sodium chloride	0.1 M HEPES pH 7.5	25% (w/v) PEG 4000	135437
38		0.1 M MES pH 6.5	10% (w/v) PEG 5000 MME; 12% (v/v) 1-propanol	135438
39	0.1 M Potassium chloride	0.1 M HEPES pH 7	15% (w/v) PEG 5000 MME	135439
40	0.2 M Ammonium sulfate	0.1 M Tris pH 7.5	20% (w/v) PEG 5000 MME	135440
41	0.1 M Magnesium chloride	0.1 M MES pH 6	8% (w/v) PEG 6000	135441
42	0.15 M Sodium chloride	0.1 M Tris pH 8	8% (w/v) PEG 6000	135442
43		0.1 M Sodium citrate pH 5.5	15% (w/v) PEG 6000	135443
44	0.1 M Magnesium acetate	0.1 M Sodium cacodylate pH 6.5	15% (w/v) PEG 6000	135444
45		0.1 M MES pH 6.5	15% (w/v) PEG 6000; 5% (v/v) MPD	135445
46	0.1 M Potassium chloride	0.1 M HEPES pH 7.5	15% (w/v) PEG 6000	135446
47		0.1 M Tris pH 7.5	15% (w/v) PEG 6000	135447
48		0.1 M Tris pH 8.5	20% (w/v) PEG 6000	135448

The Protein Complex Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
49	0.1 M Magnesium acetate	0.1 M Sodium acetate pH 4.5	8% (w/v) PEG 8000	135449
50		0.1 M Sodium citrate pH 5	8% (w/v) PEG 8000	135450
51	0.2 M Sodium chloride	0.1 M Sodium cacodylate pH 6	8% (w/v) PEG 8000	135451
52		0.1 M HEPES pH 7	8% (w/v) PEG 8000	135452
53		0.1 M Tris pH 8	8% (w/v) PEG 8000	135453
54	0.1 M Calcium acetate	0.1 M Sodium cacodylate pH 5.5	12% (w/v) PEG 8000	135454
55		0.1 M Sodium dihydrogen phosphate pH 6.5	12% (w/v) PEG 8000	135455
56	0.1 M Magnesium acetate	0.1 M MOPS pH 7.5	12% (w/v) PEG 8000	135456
57	0.2 M Sodium chloride	0.1 M HEPES pH 7.5	12% (w/v) PEG 8000	135457
58	0.2 M Ammonium sulfate	0.1 M Tris pH 8.5	12% (w/v) PEG 8000	135458
59		0.1 M Sodium citrate pH 5	20% (w/v) PEG 8000	135459
60	0.2 M Ammonium sulfate	0.1 M MES pH 6.5	20% (w/v) PEG 8000	135460
61		0.1 M HEPES pH 7	20% (w/v) PEG 8000	135461
62	0.2 M Lithium chloride	0.1 M Tris pH 8	20% (w/v) PEG 8000	135462
63	0.1 M Magnesium acetate	0.1 M MES pH 6.5	10% (w/v) PEG 10000	135463
64		0.1 M HEPES pH 7	18% (w/v) PEG 12000	135464
65	0.1 M Sodium chloride	0.1 M Tris pH 8	8% (w/v) PEG 20000	135465
66		0.1 M HEPES pH 7	15% (w/v) PEG 20000	135466
67		0.1 M MES pH 6.5	0.5 M Ammonium sulfate	135467
68		0.1 M Sodium acetate pH 5	1 M Ammonium sulfate	135468
69		0.1 M MES pH 6.5	1 M Ammonium sulfate	135469
70		0.1 M Tris pH 8	1 M Ammonium sulfate	135470
71		0.1 M Sodium acetate pH 5	1.5 M Ammonium sulfate	135471
72		0.1 M HEPES pH 7	1.5 M Ammonium sulfate	135472
73		0.1 M Tris pH 8	1.5 M Ammonium sulfate	135473
74		0.1 M Sodium acetate pH 5	2 M Ammonium sulfate	135474
75		0.1 M HEPES pH 7	2 M Ammonium sulfate	135475
76		0.1 M Tris pH 8	2 M Ammonium sulfate	135476
77	1 M Potassium chloride	0.1 M HEPES pH 7	1 M Ammonium sulfate	135477
78		0.1 M Sodium acetate pH 5	2 M Sodium formate	135478
79		0.1 M Tris pH 7.5	3 M Sodium formate	135479
80			0.8 M Potassium/Sodium phosphate pH 7.5	135480
81			1.3 M Potassium/Sodium phosphate pH 7.0	135481
82			1.6 M Potassium/Sodium phosphate pH 6.5	135482
83		0.1 M HEPES pH 7.5	1 M Sodium acetate	135483
84		0.1 M HEPES pH 7	1 M Sodium citrate	135484
85		0.1 M Sodium citrate pH 6	2 M Sodium chloride	135485
86		0.1 M MES pH 6.5	1 M Lithium sulfate	135486
87		0.1 M Tris pH 8	1.6 M Lithium sulfate	135487
88			1.4 M Sodium malonate pH 6.0	135488
89		0.1 M Tris pH 8	1.2 M Sodium/Potassium tartrate	135489
90		0.1 M MES pH 6.5	1.6 M Magnesium sulfate	135490
91		0.1 M Sodium acetate pH 5	15% (v/v) MPD; 2% (w/v) PEG 4000	135491
92	0.05 M Calcium acetate	0.1 M Sodium cacodylate pH 6	25% (v/v) MPD	135492
93		0.1 M Imidazole pH 7	50% (v/v) MPD	135493
94	0.05 M Magnesium chloride	0.1 M MES pH 6.5	10% (v/v) Isopropanol; 5% (w/v) PEG 4000	135494
95	0.2 M Ammonium acetate	0.1 M HEPES pH 7.5	25% (v/v) Isopropanol	135495
96	0.1 M Sodium chloride	0.1 M Tris pH 8	15% (v/v) Ethanol; 5% (v/v) MPD	135496

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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