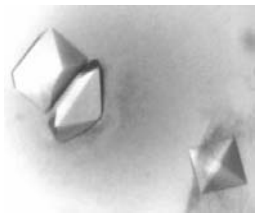
The ComPAS Suite

For screening of protein crystallization conditions



The ComPAS Suite provides:

- A ready-to-use kit format to which only protein needs to be added, for easy and fast screening
- Complementary initial screening solutions selected from the most successful BMCD (1) crystallization conditions
- Polymers, alcohols, and salts as precipitant types
- Maximized reproducibility through online access to production reports

The ComPAS 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. 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 408-413.

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	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

	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

ComPAS Suite Refill-Hit Solutions (4 x12.5 ml tubes)

Number	Salt(s)	Buffer	Precipitant 1	Precipitant 2	Cat.no.
1	0.1 M Potassium chloride		12 %(w/v) PEG 8000	5 %(w/v) Glycerol	135601
2	0.5 M Potassium chloride		12 %(w/v) PEG 8000	10 %(w/v) Glycerol	135602
3	0.2 M Ammonium sulfate		15 %(w/v) PEG 8000		135603
4	0.5 M Lithium sulfate		15 %(w/v) PEG 8000		135604
5	0.2 M Sodium acetate	0.1 M MES sodium salt pH 6.5	15 %(w/v) PEG 8000		135605
6	0.05 M Ammonium sulfate, 0.1 M tri-Sodium citrate		15 %(w/v) PEG 8000		135606
7	0.2 M Calcium acetate	0.1 M HEPES sodium salt pH 7.5	18 %(w/v) PEG 8000		135607
8	0.1 M Sodium acetate	0.1 M HEPES sodium salt pH 7.5	18 %(w/v) PEG 8000	2 %(w/v) Isopropanol	135608
9	0.2 M Lithium sulfate	0.1 M Tris.HCl pH 8.5	18 %(w/v) PEG 8000		135609
10		0.1 M HEPES sodium salt pH 7.5	20 %(w/v) PEG 8000		135610
11	0.2 M Magnesium acetate	0.1 M MES sodium salt pH 6.5	20 %(w/v) PEG 8000		135611
12		0.1 M CHES pH 9.5	20 %(w/v) PEG 8000		135612
13	0.2 M Ammonium sulfate	0.1 M MES sodium salt pH 6.5	22 %(w/v) PEG 8000		135613
14	0.2 M Lithium chloride		25 %(w/v) PEG 8000		135614
15	0.2 M Ammonium sulfate		30 %(w/v) PEG 8000		135615
16		0.1 M Sodium acetate pH 4.6	8 %(w/v) PEG 10000		135616
17		0.1 M Imidazole.HCl pH 8.0	14 %(w/v) PEG 10000		135617
18		0.1 M Tris.HCl pH 8.5	16 %(w/v) PEG 10000		135618
19	0.1 M Sodium chloride	0.1 M Tris.HCl pH 8.5	18 %(w/v) PEG 10000	20 %(w/v) Glycerol	135619
20		0.1 M HEPES sodium salt pH 7.5	20 %(w/v) PEG 10000		135620
21		0.1 M Tris.HCl pH 8.5	30 %(w/v) PEG 10000		135621
22		0.1 M MES sodium salt pH 6.5	10 %(w/v) PEG 20000		135622
23	0.1 M Magnesium chloride	0.1 M Tris.HCl pH 8.5	17 %(w/v) PEG 20000		135623
24			20 %(w/v) PEG 20000		135624
25	0.01 M Sodium acetate		50 %(w/v) MPD	15 %(w/v) Ethanol	135625
26	0.05 M Sodium acetate , 0.05M Sodium chloride		50 %(w/v) MPD	20 %(w/v) Isopropanol	135626
27	0.1 M Ammonium phosphate	0.1 M Tris.HCl pH 8.5	50 %(w/v) MPD		135627
28			55 %(w/v) MPD		135628
29	0.01 M Calcium chloride	0.1 M Sodium acetate pH 4.6	60 %(w/v) MPD		135629
30	0.02 M Sodium acetate		60 %(w/v) MPD		135630
31		0.1 M MES sodium salt pH 6.5	70 %(w/v) MPD		135631
32		0.1 M Tris.HCl pH 8.5	70 %(w/v) MPD		135632
33	0.01 M Calcium chloride	0.1 M Tris.HCl pH 8.5	20 %(w/v) Methanol		135633
34		0.1 M Tris.HCl pH 8.5	2 %(w/v) Ethanol		135634
35		0.1 M HEPES sodium salt pH 7.5	5 %(w/v) Ethanol	5 %(w/v) MPD	135635
36	0.2 M Sodium chloride	0.1 M Tris.HCl pH 8.5	5 %(w/v) Ethanol	5 %(w/v) MPD	135636
37		0.1 M Tris.HCl pH 8.5	10 %(w/v) Ethanol		135637
38		0.1 M Sodium acetate pH 4.6	12 %(w/v) Ethanol	4 %(w/v) PEG 400	135638
39		0.1 M Tris.HCl pH 8.5	14 %(w/v) Ethanol	5 %(w/v) Glycerol	135639
40		0.1 M Tris.HCl pH 8.5	18 %(w/v) Ethanol		135640
41			20 %(w/v) Ethanol		135641
42			20 %(w/v) Ethanol	10 %(w/v) Glycerol	135642
43	0.1 M Sodium acetate		30 %(w/v) Ethanol	10 %(w/v) PEG 6000	135643
44			45 %(w/v) Ethanol		135644
45	0.01 M Sodium acetate		50 %(w/v) Ethanol		135645
46	0.05 M Sodium acetate		60 %(w/v) Ethanol	1.5 %(w/v) PEG 6000	135646
47	0.1 M Sodium chloride		60 %(w/v) Ethanol		135647
48	0.01 M Magnesium sulfate	0.1 M Tris.HCl pH 8.5	2 %(w/v) Isopropanol		135648

ComPAS Suite Refill-Hit Solutions (4 x 12.5 ml tubes)

Number	Salt(s)	Buffer	Precipitant 1	Precipitant 2	Cat.no.
49		0.1 M HEPES sodium salt pH 7.5	5 %(w/v) Isopropanol		135649
50	0.2 M Calcium chloride	0.1 M Sodium acetate pH 4.6	10 %(w/v) Isopropanol		135650
51	0.2 M tri-Sodium citrate	0.1 M HEPES sodium salt pH 7.5	10 %(w/v) Isopropanol		135651
52	0.01 M Magnesium chloride	0.1 M Tris.HCl pH 8.5	10 %(w/v) Isopropanol		135652
53	0.05 M Sodium chloride	0.1 M Tris.HCl pH 8.5	12 %(w/v) Isopropanol		135653
54	0.2 M tri-Sodium citrate	0.1 M MES sodium salt pH 6.5	15 %(w/v) Isopropanol		135654
55	0.2 M tri-Sodium citrate	0.1 M HEPES sodium salt pH 7.5	15 %(w/v) Isopropanol		135655
56	0.2 M Magnesium chloride	0.1 M HEPES sodium salt pH 7.5	15 %(w/v) Isopropanol		135656
57	0.2 M Ammonium acetate	0.1 M Tris.HCl pH 8.5	15 %(w/v) Isopropanol		135657
58	0.2 M Calcium chloride	0.1 M Sodium acetate pH 4.6	20 %(w/v) Isopropanol		135658
59	0.2 M tri-Sodium citrate	0.1 M HEPES sodium salt pH 7.5	20 %(w/v) Isopropanol		135659
60	0.1 M Magnesium chloride	0.1 M HEPES sodium salt pH 7.5	25 %(w/v) Isopropanol		135660
61	0.2 M tri-Sodium citrate	0.1 M MES sodium salt pH 6.5	30 %(w/v) Isopropanol		135661
62	0.2 M Magnesium chloride	0.1 M HEPES sodium salt pH 7.5	30 %(w/v) Isopropanol		135662
63	0.2 M Ammonium acetate	0.1 M Tris.HCl pH 8.5	30 %(w/v) Isopropanol		135663
64	0.1 M Calcium chloride	0.1 M Tris.HCl pH 8.5	25 %(w/v) tert-Butanol		135664
65		0.1 M tri-Sodium citrate pH 5.6	35 %(w/v) tert-Butanol		135665
66			0.2 M Ammonium phosphate		135666
67			0.2 M K/Na tartrate		135667
68			0.2 M Magnesium acetate		135668
69			0.4 M Ammonium phosphate		135669
70			0.4 M K/Na tartrate		135670
71		0.1 M Tris.HCl pH 8.5	0.4 M K/Na tartrate		135671
72	0.2 M tri-Sodium citrate		0.5 M Ammonium phosphate		135672
73		0.1 M Imidazole.HCl pH 8.0	0.5 M Sodium acetate		135673
74		0.1 M HEPES sodium salt pH 7.5	0.7 M tri-Sodium citrate		135674
75		0.1 M Tris.HCl pH 8.5	0.7 M Lithium sulfate		135675
76		0.1 M HEPES sodium salt pH 7.5	0.8 M K/Na tartrate		135676
77		0.1 M tri-Sodium citrate pH 5.6	1.0 M Ammonium phosphate		135677
78		0.1 M Tris.HCl pH 8.5	1.0 M Ammonium phosphate		135678
79	0.01 M Nickel chloride	0.1 M Tris.HCl pH 8.5	1.0 M Lithium sulfate		135679
80		0.1 M Imidazole.HCl pH 8.0	1.0 M Sodium acetate		135680
81		0.1 M Sodium acetate pH 4.6	1.0 M Sodium formate		135681
82		0.1 M MES sodium salt pH 6.5	1.4 M Sodium acetate		135682
83		0.1 M HEPES sodium salt pH 7.5	1.4 M tri-Sodium citrate		135683
84		0.1 M Tris.HCl pH 8.5	1.5 M Lithium sulfate		135684
85			1.0 M tri-Sodium citrate		135685
86		0.1 M MES sodium salt pH 6.5	1.6 M Magnesium sulfate		135686
87		0.1 M MES sodium salt pH 6.5	1.6 M K/Na tartrate		135687
88		0.1 M MES sodium salt pH 6.5	2.0 M Ammonium formate		135688
89		0.1 M Tris.HCl pH 8.5	2.0 M Ammonium phosphate		135689
90			2.0 M Sodium formate		135690
91		0.1 M Tris.HCl pH 8.5	2.0 M Magnesium chloride		135691
92	0.2 M Sodium acetate	0.1 M MES sodium salt pH 6.5	2.0 M Sodium chloride		135692
93		0.1 M Sodium acetate pH 4.6	2.0 M Sodium formate		135693
94		0.1 M Tris.HCl pH 8.5	1.0 M Ammonium phosphate	30 %(w/v) Glycerol	135694
95		0.1 M HEPES sodium salt pH 7.5	4.0 M Sodium chloride		135695
96			3.0 M Sodium formate		135696

Protein Crystallization Suites and Formats

	EasyXtal Microplate	NeXtal Deep-Well Block	EasyXtal Tool X-Seal	EasyXtal DG Tool X-Seal	NeXtal Tubes
The Classics Suite	■	■	■	■	■
The Classics Lite 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 Opti-Salts Suite	■		■	■	
Pre-Screen Assay				■	

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