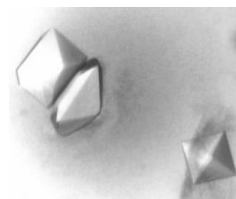


# The ComPAS Suite

## 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	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 CompAS Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
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 pH 6.5	15% (w/v) PEG 8000	135605
6	0.05 M Ammonium sulfate	0.1 M Sodium citrate	15% (w/v) PEG 8000	135606
7	0.2 M Calcium acetate	0.1 M HEPES pH 7.5	18% (w/v) PEG 8000	135607
8	0.1 M Sodium acetate	0.1 M HEPES pH 7.5	18% (w/v) PEG 8000; 2% (w/v) Isopropanol	135608
9	0.2 M Lithium sulfate	0.1 M Tris pH 8.5	18% (w/v) PEG 8000	135609
10		0.1 M HEPES pH 7.5	20% (w/v) PEG 8000	135610
11	0.2 M Magnesium acetate	0.1 M MES 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 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 pH 8.0	14% (w/v) PEG 10000	135617
18		0.1 M Tris pH 8.5	16% (w/v) PEG 10000	135618
19	0.1 M Sodium chloride	0.1 M Tris pH 8.5	18% (w/v) PEG 10000; 20% (w/v) Glycerol	135619
20		0.1 M HEPES pH 7.5	20% (w/v) PEG 10000	135620
21		0.1 M Tris pH 8.5	30% (w/v) PEG 10000	135621
22		0.1 M MES pH 6.5	10% (w/v) PEG 20000	135622
23	0.1 M Magnesium chloride	0.1 M Tris 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	0.05M Sodium chloride	0.05 M Sodium acetate	50% (w/v) MPD; 20% (w/v) Isopropanol	135626
27	0.1 M Ammonium phosphate	0.1 M Tris 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 pH 6.5	70% (w/v) MPD	135631
32		0.1 M Tris pH 8.5	70% (w/v) MPD	135632
33	0.01 M Calcium chloride	0.1 M Tris pH 8.5	20% (w/v) Methanol	135633
34		0.1 M Tris pH 8.5	2% (w/v) Ethanol	135634
35		0.1 M HEPES pH 7.5	5% (w/v) Ethanol; 5% (w/v) MPD	135635
36	0.2 M Sodium chloride	0.1 M Tris pH 8.5	5% (w/v) Ethanol; 5% (w/v) MPD	135636
37		0.1 M Tris 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 pH 8.5	14% (w/v) Ethanol; 5% (w/v) Glycerol	135639
40		0.1 M Tris 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 pH 8.5	2% (w/v) Isopropanol	135648

## The CompAS Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
49		0.1 M HEPES 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 Sodium citrate	0.1 M HEPES pH 7.5	10% (w/v) Isopropanol	135651
52	0.01 M Magnesium chloride	0.1 M Tris pH 8.5	10% (w/v) Isopropanol	135652
53	0.05 M Sodium chloride	0.1 M Tris pH 8.5	12% (w/v) Isopropanol	135653
54	0.2 M Sodium citrate	0.1 M MES pH 6.5	15% (w/v) Isopropanol	135654
55	0.2 M Sodium citrate	0.1 M HEPES pH 7.5	15% (w/v) Isopropanol	135655
56	0.2 M Magnesium chloride	0.1 M HEPES pH 7.5	15% (w/v) Isopropanol	135656
57	0.2 M Ammonium acetate	0.1 M Tris 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 Sodium citrate	0.1 M HEPES pH 7.5	20% (w/v) Isopropanol	135659
60	0.1 M Magnesium chloride	0.1 M HEPES pH 7.5	25% (w/v) Isopropanol	135660
61	0.2 M Sodium citrate	0.1 M MES pH 6.5	30% (w/v) Isopropanol	135661
62	0.2 M Magnesium chloride	0.1 M HEPES pH 7.5	30% (w/v) Isopropanol	135662
63	0.2 M Ammonium acetate	0.1 M Tris pH 8.5	30% (w/v) Isopropanol	135663
64	0.1 M Calcium chloride	0.1 M Tris pH 8.5	25% (w/v) tert-Butanol	135664
65		0.1 M Sodium citrate pH 5.6	35% (w/v) tert-Butanol	135665
66			0.2 M Ammonium dihydrogen phosphate	135666
67			0.2 M Potassium/Sodium tartrate	135667
68			0.2 M Magnesium acetate	135668
69			0.4 M Ammonium dihydrogen phosphate	135669
70			0.4 M Potassium/Sodium tartrate	135670
71		0.1 M Tris pH 8.5	0.4 M Potassium/Sodium tartrate	135671
72	0.2 M Sodium citrate		0.5 M Ammonium dihydrogen phosphate	135672
73		0.1 M Imidazole pH 8.0	0.5 M Sodium acetate	135673
74		0.1 M HEPES pH 7.5	0.7 M Sodium citrate	135674
75		0.1 M Tris pH 8.5	0.7 M Lithium sulfate	135675
76		0.1 M HEPES pH 7.5	0.8 M Potassium/Sodium tartrate	135676
77		0.1 M Sodium citrate pH 5.6	1.0 M Ammonium dihydrogen phosphate	135677
78		0.1 M Tris pH 8.5	1.0 M Ammonium dihydrogen phosphate	135678
79	0.01 M Nickel chloride	0.1 M Tris pH 8.5	1.0 M Lithium sulfate	135679
80		0.1 M Imidazole 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 pH 6.5	1.4 M Sodium acetate	135682
83		0.1 M HEPES pH 7.5	1.4 M Sodium citrate	135683
84		0.1 M Tris pH 8.5	1.5 M Lithium sulfate	135684
85		1 M Sodium citrate pH 6.5		135685
86		0.1 M MES pH 6.5	1.6 M Magnesium sulfate	135686
87		0.1 M MES pH 6.5	1.6 M Potassium/Sodium tartrate	135687
88		0.1 M MES pH 6.5	2.0 M Ammonium formate	135688
89		0.1 M Tris pH 8.5	2.0 M Ammonium dihydrogen phosphate	135689
90			2.0 M Sodium formate	135690
91		0.1 M Tris pH 8.5	2.0 M Magnesium chloride	135691
92	0.2 M Sodium acetate	0.1 M MES 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 pH 8.5	1.0 M Ammonium dihydrogen phosphate; 30% (w/v) Glycerol	135694
95		0.1 M HEPES 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 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 <sub>4</sub> 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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