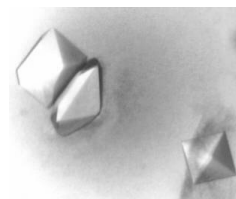


The Cations Suite

For screening of protein crystallization conditions



The Cations 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 various salts at two concentrations and four different pH values
- Salts as precipitant for protein crystallization
- The different solutions in a mini-grid format to easily view trends for each different salt and pH concentration

The Cations 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	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 Cations Suite Composition Table

Number	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
1	0.1 M Sodium acetate pH 4.6	3.5 M Ammonium chloride	134701
2	0.1 M Sodium acetate pH 4.6	1.75 M Ammonium chloride	134702
3	0.1 M Sodium acetate pH 4.6	4.0 M Lithium chloride	134703
4	0.1 M Sodium acetate pH 4.6	2.0 M Lithium chloride	134704
5	0.1 M Sodium acetate pH 4.6	1.5 M Magnesium chloride	134705
6	0.1 M Sodium acetate pH 4.6	0.75 M Magnesium chloride	134706
7	0.1 M MES pH 6.5	3.5 M Ammonium chloride	134707
8	0.1 M MES pH 6.5	1.75 M Ammonium chloride	134708
9	0.1 M MES pH 6.5	4.0 M Lithium chloride	134709
10	0.1 M MES pH 6.5	2.0 M Lithium chloride	134710
11	0.1 M MES pH 6.5	1.5 M Magnesium chloride	134711
12	0.1 M MES pH 6.5	0.75 M Magnesium chloride	134712
13	0.1 M HEPES pH 7.5	3.5 M Ammonium chloride	134713
14	0.1 M HEPES pH 7.5	1.75 M Ammonium chloride	134714
15	0.1 M HEPES pH 7.5	4.0 M Lithium chloride	134715
16	0.1 M HEPES pH 7.5	2.0 M Lithium chloride	134716
17	0.1 M HEPES pH 7.5	1.5 M Magnesium chloride	134717
18	0.1 M HEPES pH 7.5	0.75 M Magnesium chloride	134718
19	0.1 M Tris-HCl pH 8.5	3.5 M Ammonium chloride	134719
20	0.1 M Tris-HCl pH 8.5	1.75 M Ammonium chloride	134720
21	0.1 M Tris-HCl pH 8.5	4.0 M Lithium chloride	134721
22	0.1 M Tris-HCl pH 8.5	2.0 M Lithium chloride	134722
23	0.1 M Tris-HCl pH 8.5	1.5 M Magnesium chloride	134723
24	0.1 M Tris-HCl pH 8.5	0.75 M Magnesium chloride	134724
25	0.1 M Sodium acetate pH 4.6	4.5 M Ammonium acetate	134725
26	0.1 M Sodium acetate pH 4.6	2.25 M Ammonium acetate	134726
27	0.1 M Sodium acetate pH 4.6	2.5 M Lithium acetate	134727
28	0.1 M Sodium acetate pH 4.6	1.25 M Lithium acetate	134728
29	0.1 M Sodium acetate pH 4.6	2.0 M Magnesium acetate	134729
30	0.1 M Sodium acetate pH 4.6	1.0 M Magnesium acetate	134730
31	0.1 M MES pH 6.5	4.5 M Ammonium acetate	134731
32	0.1 M MES pH 6.5	2.25 M Ammonium acetate	134732
33	0.1 M MES pH 6.5	2.5 M Lithium acetate	134733
34	0.1 M MES pH 6.5	1.25 M Lithium acetate	134734
35	0.1 M MES pH 6.5	2.0 M Magnesium acetate	134735
36	0.1 M MES pH 6.5	1.0 M Magnesium acetate	134736
37	0.1 M HEPES pH 7.5	4.5 M Ammonium acetate	134737
38	0.1 M HEPES pH 7.5	2.25 M Ammonium acetate	134738
39	0.1 M HEPES pH 7.5	2.5 M Lithium acetate	134739
40	0.1 M HEPES pH 7.5	1.25 M Lithium acetate	134740
41	0.1 M HEPES pH 7.5	2.0 M Magnesium acetate	134741
42	0.1 M HEPES pH 7.5	1.0 M Magnesium acetate	134742
43	0.1 M Tris-HCl pH 8.5	4.5 M Ammonium acetate	134743
44	0.1 M Tris-HCl pH 8.5	2.25 M Ammonium acetate	134744
45	0.1 M Tris-HCl pH 8.5	2.5 M Lithium acetate	134745
46	0.1 M Tris-HCl pH 8.5	1.25 M Lithium acetate	134746
47	0.1 M Tris-HCl pH 8.5	2.0 M Magnesium acetate	134747
48	0.1 M Tris-HCl pH 8.5	1.0 M Magnesium acetate	134748

The Cations Suite Composition Table

Number	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
49	0.1 M Sodium acetate pH 4.6	2.2 M Calcium chloride	134749
50	0.1 M Sodium acetate pH 4.6	1.1 M Calcium chloride	134750
51	0.1 M Sodium acetate pH 4.6	3.2 M Sodium chloride	134751
52	0.1 M Sodium acetate pH 4.6	1.6 M Sodium chloride	134752
53	0.1 M Sodium acetate pH 4.6	1.6 M Zinc sulfate	134753
54	0.1 M Sodium acetate pH 4.6	0.8 M Zinc sulfate	134754
55	0.1 M MES pH 6.5	2.2 M Calcium chloride	134755
56	0.1 M MES pH 6.5	1.1 M Calcium chloride	134756
57	0.1 M MES pH 6.5	3.2 M Sodium chloride	134757
58	0.1 M MES pH 6.5	1.6 M Sodium chloride	134758
59	0.1 M Sodium cacodylate pH 6.5	1.6 M Zinc sulfate	134759
60	0.1 M Sodium cacodylate pH 6.5	0.8 M Zinc sulfate	134760
61	0.1 M HEPES pH 7.5	2.2 M Calcium chloride	134761
62	0.1 M HEPES pH 7.5	1.1 M Calcium chloride	134762
63	0.1 M HEPES pH 7.5	3.2 M Sodium chloride	134763
64	0.1 M HEPES pH 7.5	1.6 M Sodium chloride	134764
65	0.1 M Imidazole pH 7.5	1.6 M Zinc sulfate	134765
66	0.1 M Imidazole pH 7.5	0.8 M Zinc sulfate	134766
67	0.1 M Tris-HCl pH 8.5	2.2 M Calcium chloride	134767
68	0.1 M Tris-HCl pH 8.5	1.1 M Calcium chloride	134768
69	0.1 M Tris-HCl pH 8.5	3.2 M Sodium chloride	134769
70	0.1 M Tris-HCl pH 8.5	1.6 M Sodium chloride	134770
71	0.1 M Bicine pH 8.5	1.6 M Zinc sulfate	134771
72	0.1 M Bicine pH 8.5	0.8 M Zinc sulfate	134772
73	0.1 M Sodium acetate pH 4.6	4.0 M Potassium acetate	134773
74	0.1 M Sodium acetate pH 4.6	2.0 M Potassium acetate	134774
75	0.1 M Sodium acetate pH 4.6	2.2 M Potassium chloride	134775
76	0.1 M Sodium acetate pH 4.6	1.1 M Potassium chloride	134776
77	0.1 M Sodium acetate pH 4.6	1.2 M Zinc acetate	134777
78	0.1 M Sodium acetate pH 4.6	0.6 M Zinc acetate	134778
79	0.1 M MES pH 6.5	4.0 M Potassium acetate	134779
80	0.1 M MES pH 6.5	2.0 M Potassium acetate	134780
81	0.1 M MES pH 6.5	2.2 M Potassium chloride	134781
82	0.1 M MES pH 6.5	1.1 M Potassium chloride	134782
83	0.1 M MES pH 6.5	1.2 M Zinc acetate	134783
84	0.1 M MES pH 6.5	0.6 M Zinc acetate	134784
85	0.1 M HEPES pH 7.5	4.0 M Potassium acetate	134785
86	0.1 M HEPES pH 7.5	2.0 M Potassium acetate	134786
87	0.1 M HEPES pH 7.5	2.2 M Potassium chloride	134787
88	0.1 M HEPES pH 7.5	1.1 M Potassium chloride	134788
89	0.1 M Imidazole pH 7.5	1.2 M Zinc acetate	134789
90	0.1 M Imidazole pH 7.5	0.6 M Zinc acetate	134790
91	0.1 M Tris-HCl pH 8.5	4.0 M Potassium acetate	134791
92	0.1 M Tris-HCl pH 8.5	2.0 M Potassium acetate	134792
93	0.1 M Tris-HCl pH 8.5	2.2 M Potassium chloride	134793
94	0.1 M Tris-HCl pH 8.5	1.1 M Potassium chloride	134794
95	0.1 M Tris-HCl pH 8.5	1.2 M Zinc acetate	134795
96	0.1 M Tris-HCl pH 8.5	0.6 M Zinc acetate	134796

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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