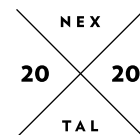


THE CATIONS SUITE

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 1 ml DWBlock and 10 ml tube formats.

The formulations of the 96 conditions of this screen, together with an order number for the 100 ml refill solution for each condition, are found on pages 2 and 3. Optimization reagent stock solutions for each NeXtal crystallization screen are available on our website. Please contact us with any questions about condition formulations or optimization.

 Fast, simple, consistent crystallography. **NO SURPRISES**



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THE CATIONS SUITE COMPOSITION TABLE

#	Well	Buffer	Precipitant	100 ml Refill SKU
1	A1	0.1 M Sodium acetate pH 4.6	3.5 M Ammonium chloride	134701-1
2	A2	0.1 M Sodium acetate pH 4.6	1.75 M Ammonium chloride	134701-2
3	A3	0.1 M Sodium acetate pH 4.6	4.0 M Lithium chloride	134701-3
4	A4	0.1 M Sodium acetate pH 4.6	2.0 M Lithium chloride	134701-4
5	A5	0.1 M Sodium acetate pH 4.6	1.5 M Magnesium chloride	134701-5
6	A6	0.1 M Sodium acetate pH 4.6	0.75 M Magnesium chloride	134701-6
7	A7	0.1 M MES pH 6.5	3.5 M Ammonium chloride	134701-7
8	A8	0.1 M MES pH 6.5	1.75 M Ammonium chloride	134701-8
9	A9	0.1 M MES pH 6.5	4.0 M Lithium chloride	134701-9
10	A10	0.1 M MES pH 6.5	2.0 M Lithium chloride	134701-10
11	A11	0.1 M MES pH 6.5	1.5 M Magnesium chloride	134701-11
12	A12	0.1 M MES pH 6.5	0.75 M Magnesium chloride	134701-12
13	B1	0.1 M HEPES pH 7.5	3.5 M Ammonium chloride	134701-13
14	B2	0.1 M HEPES pH 7.5	1.75 M Ammonium chloride	134701-14
15	B3	0.1 M HEPES pH 7.5	4.0 M Lithium chloride	134701-15
16	B4	0.1 M HEPES pH 7.5	2.0 M Lithium chloride	134701-16
17	B5	0.1 M HEPES pH 7.5	1.5 M Magnesium chloride	134701-17
18	B6	0.1 M HEPES pH 7.5	0.75 M Magnesium chloride	134701-18
19	B7	0.1 M TrisHCl pH 8.5	3.5 M Ammonium chloride	134701-19
20	B8	0.1 M TrisHCl pH 8.5	1.75 M Ammonium chloride	134701-20
21	B9	0.1 M TrisHCl pH 8.5	4.0 M Lithium chloride	134701-21
22	B10	0.1 M TrisHCl pH 8.5	2.0 M Lithium chloride	134701-22
23	B11	0.1 M TrisHCl pH 8.5	1.5 M Magnesium chloride	134701-23
24	B12	0.1 M TrisHCl pH 8.5	0.75 M Magnesium chloride	134701-24
25	C1	0.1 M Sodium acetate pH 4.6	4.5 M Ammonium acetate	134701-25
26	C2	0.1 M Sodium acetate pH 4.6	2.25 M Ammonium acetate	134701-26
27	C3	0.1 M Sodium acetate pH 4.6	2.5 M Lithium acetate	134701-27
28	C4	0.1 M Sodium acetate pH 4.6	1.25 M Lithium acetate	134701-28
29	C5	0.1 M Sodium acetate pH 4.6	2.0 M Magnesium acetate	134701-29
30	C6	0.1 M Sodium acetate pH 4.6	1.0 M Magnesium acetate	134701-30
31	C7	0.1 M MES pH 6.5	4.5 M Ammonium acetate	134701-31
32	C8	0.1 M MES pH 6.5	2.25 M Ammonium acetate	134701-32
33	C9	0.1 M MES pH 6.5	2.5 M Lithium acetate	134701-33
34	C10	0.1 M MES pH 6.5	1.25 M Lithium acetate	134701-34
35	C11	0.1 M MES pH 6.5	2.0 M Magnesium acetate	134701-35
36	C12	0.1 M MES pH 6.5	1.0 M Magnesium acetate	134701-36
37	D1	0.1 M HEPES pH 7.5	4.5 M Ammonium acetate	134701-37
38	D2	0.1 M HEPES pH 7.5	2.25 M Ammonium acetate	134701-38
39	D3	0.1 M HEPES pH 7.5	2.5 M Lithium acetate	134701-39
40	D4	0.1 M HEPES pH 7.5	1.25 M Lithium acetate	134701-40
41	D5	0.1 M HEPES pH 7.5	2.0 M Magnesium acetate	134701-41
42	D6	0.1 M HEPES pH 7.5	1.0 M Magnesium acetate	134701-42
43	D7	0.1 M TrisHCl pH 8.5	4.5 M Ammonium acetate	134701-43
44	D8	0.1 M TrisHCl pH 8.5	2.25 M Ammonium acetate	134701-44
45	D9	0.1 M TrisHCl pH 8.5	2.5 M Lithium acetate	134701-45
46	D10	0.1 M TrisHCl pH 8.5	1.25 M Lithium acetate	134701-46
47	D11	0.1 M TrisHCl pH 8.5	2.0 M Magnesium acetate	134701-47
48	D12	0.1 M TrisHCl pH 8.5	1.0 M Magnesium acetate	134701-48



Fast, simple, consistent crystallography. **NO SURPRISES**



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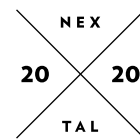
THE CATIONS SUITE COMPOSITION TABLE

#	Well	Buffer	Precipitant	100 ml Refill SKU
49	E1	0.1 M Sodium acetate pH 4.6	2.2 M Calcium chloride	134701-49
50	E2	0.1 M Sodium acetate pH 4.6	1.1 M Calcium chloride	134701-50
51	E3	0.1 M Sodium acetate pH 4.6	3.2 M Sodium chloride	134701-51
52	E4	0.1 M Sodium acetate pH 4.6	1.6 M Sodium chloride	134701-52
53	E5	0.1 M Sodium acetate pH 4.6	1.6 M Zinc sulfate	134701-53
54	E6	0.1 M Sodium acetate pH 4.6	0.8 M Zinc sulfate	134701-54
55	E7	0.1 M MES pH 6.5	2.2 M Calcium chloride	134701-55
56	E8	0.1 M MES pH 6.5	1.1 M Calcium chloride	134701-56
57	E9	0.1 M MES pH 6.5	3.2 M Sodium chloride	134701-57
58	E10	0.1 M MES pH 6.5	1.6 M Sodium chloride	134701-58
59	E11	0.1 M Sodium cacodylate pH 6.5	1.6 M Zinc sulfate	134701-59
60	E12	0.1 M Sodium cacodylate pH 6.5	0.8 M Zinc sulfate	134701-60
61	F1	0.1 M HEPES pH 7.5	2.2 M Calcium chloride	134701-61
62	F2	0.1 M HEPES pH 7.5	1.1 M Calcium chloride	134701-62
63	F3	0.1 M HEPES pH 7.5	3.2 M Sodium chloride	134701-63
64	F4	0.1 M HEPES pH 7.5	1.6 M Sodium chloride	134701-64
65	F5	0.1 M Imidazole pH 7.5	1.6 M Zinc sulfate	134701-65
66	F6	0.1 M Imidazole pH 7.5	0.8 M Zinc sulfate	134701-66
67	F7	0.1 M TrisHCl pH 8.5	2.2 M Calcium chloride	134701-67
68	F8	0.1 M TrisHCl pH 8.5	1.1 M Calcium chloride	134701-68
69	F9	0.1 M TrisHCl pH 8.5	3.2 M Sodium chloride	134701-69
70	F10	0.1 M TrisHCl pH 8.5	1.6 M Sodium chloride	134701-70
71	F11	0.1 M Bicine pH 8.5	1.6 M Zinc sulfate	134701-71
72	F12	0.1 M Bicine pH 8.5	0.8 M Zinc sulfate	134701-72
73	G1	0.1 M Sodium acetate pH 4.6	4.0 M Potassium acetate	134701-73
74	G2	0.1 M Sodium acetate pH 4.6	2.0 M Potassium acetate	134701-74
75	G3	0.1 M Sodium acetate pH 4.6	2.2 M Potassium chloride	134701-75
76	G4	0.1 M Sodium acetate pH 4.6	1.1 M Potassium chloride	134701-76
77	G5	0.1 M Sodium acetate pH 4.6	1.2 M Zinc acetate	134701-77
78	G6	0.1 M Sodium acetate pH 4.6	0.6 M Zinc acetate	134701-78
79	G7	0.1 M MES pH 6.5	4.0 M Potassium acetate	134701-79
80	G8	0.1 M MES pH 6.5	2.0 M Potassium acetate	134701-80
81	G9	0.1 M MES pH 6.5	2.2 M Potassium chloride	134701-81
82	G10	0.1 M MES pH 6.5	1.1 M Potassium chloride	134701-82
83	G11	0.1 M MES pH 6.5	1.2 M Zinc acetate	134701-83
84	G12	0.1 M MES pH 6.5	0.6 M Zinc acetate	134701-84
85	H1	0.1 M HEPES pH 7.5	4.0 M Potassium acetate	134701-85
86	H2	0.1 M HEPES pH 7.5	2.0 M Potassium acetate	134701-86
87	H3	0.1 M HEPES pH 7.5	2.2 M Potassium chloride	134701-87
88	H4	0.1 M HEPES pH 7.5	1.1 M Potassium chloride	134701-88
89	H5	0.1 M Imidazole pH 7.5	1.2 M Zinc acetate	134701-89
90	H6	0.1 M Imidazole pH 7.5	0.6 M Zinc acetate	134701-90
91	H7	0.1 M TrisHCl pH 8.5	4.0 M Potassium acetate	134701-91
92	H8	0.1 M TrisHCl pH 8.5	2.0 M Potassium acetate	134701-92
93	H9	0.1 M TrisHCl pH 8.5	2.2 M Potassium chloride	134701-93
94	H10	0.1 M TrisHCl pH 8.5	1.1 M Potassium chloride	134701-94
95	H11	0.1 M TrisHCl pH 8.5	1.2 M Zinc acetate	134701-95
96	H12	0.1 M TrisHCl pH 8.5	0.6 M Zinc acetate	134701-96



Other NeXtal Crystallization Screens Available

- The Classics Suite
- The Classics Lite Suite
- The Classics II Suite
- The Cryos Suite
- The PEGs Suite
- The AmSO₄ 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



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