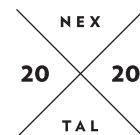


# *THE NUCLEIX SUITE*

**FOR SCREENING OF PROTEIN CRYSTALLIZATION CONDITIONS**



## **The Nucleix Suite provides:**

- A ready-to-use kit format to which only protein needs to be added, for easy and fast screening
- Crystallization conditions perfectly suited for protein-nucleic acid complexes
- A controlled environment and fresh solutions every time
- Maximized reproducibility through online access to production reports

The Nucleix 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**



**NeXtal**

## THE NUCLEIX SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	100 ml Refill SKU
1	A1	0.01 M Magnesium chloride	0.05 M MES pH 5.6	2 M Lithium sulfate	135801-01
2	A2	0.01 M Magnesium acetate	0.05 M MES pH 5.6	2.5 M Ammonium sulfate	135801-02
3	A3	0.1 M Magnesium acetate	0.05 M MES pH 5.6	20% (v/v) MPD	135801-03
4	A4	0.2 M Potassium chloride; 0.01 M Magnesium sulfate	0.05 M MES pH 5.6	10% (v/v) PEG 400	135801-04
5	A5	0.2 M Potassium chloride; 0.01 M Magnesium chloride	0.05 M MES pH 5.6	5% (w/v) PEG 8000	135801-05
6	A6	0.1 M Ammonium sulfate ; 0.01 M Magnesium chloride	0.05 M MES pH 5.6	20% (w/v) PEG 8000	135801-06
7	A7	0.02 M Magnesium chloride	0.05 M MES pH 6.0	15% (v/v) Isopropanol	135801-07
8	A8	0.1 M Ammonium acetate; 0.005 M Magnesium sulfate	0.05 M MES pH 6.0	0.6 M Sodium chloride	135801-08
9	A9	0.1 M Potassium chloride; 0.01 M Magnesium chloride	0.05 M MES pH 6.0	10% (v/v) PEG 400	135801-09
10	A10	0.005 M Magnesium sulfate	0.05 M MES pH 6.0	5% (w/v) PEG 4000	135801-10
11	A11	0.01 M Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	1 M Lithium sulfate	135801-11
12	A12	0.01 M Magnesium sulfate	0.05 M Sodium cacodylate pH 6.0	1.8 M Lithium sulfate	135801-12
13	B1	0.015 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.0	1.7 M Ammonium sulfate	135801-13
14	B2	0.1 M Potassium chloride; 0.025 M Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	15% (v/v) Isopropanol	135801-14
15	B3	0.04 M Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	5% (v/v) MPD	135801-15
16	B4	0.04 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.0	30% (v/v) MPD	135801-16
17	B5	0.2 M Potassium chloride; 0.01 M Calcium chloride	0.05 M Sodium cacodylate pH 6.0	10% (w/v) PEG 4000	135801-17
18	B6	0.01 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.5	1.3 M Lithium sulfate	135801-18
19	B7	0.01 M Magnesium sulfate	0.05 M Sodium cacodylate pH 6.5	2 M Ammonium sulfate	135801-19
20	B8	0.1 M Ammonium acetate; 0.015 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.5	10% (v/v) Isopropanol	135801-20
21	B9	0.2 M Potassium chloride; 0.005 M Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	10% (w/v) 1,6-Hexanediol	135801-21
22	B10	0.08 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.5	15% (v/v) PEG 400	135801-22
23	B11	0.2 M Potassium chloride; 0.01 M Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	10% (w/v) PEG 4000	135801-23
24	B12	0.2 M Ammonium acetate; 0.01 M Calcium chloride	0.05 M Sodium cacodylate pH 6.5	10% (w/v) PEG 4000	135801-24
25	C1	0.08 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.5	30% (w/v) PEG 4000	135801-25
26	C2	0.2 M Potassium chloride; 0.1 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.5	10% (w/v) PEG 8000	135801-26
27	C3	0.2 M Ammonium acetate; 0.01 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.5	30% (w/v) PEG 8000	135801-27
28	C4	0.05 M Magnesium sulfate	0.05 M HEPES Sodium salt pH 7.0	1.6 M Lithium sulfate	135801-28
29	C5	0.01 M Magnesium chloride	0.05 M HEPES Sodium salt pH 7.0	4 M Lithium chloride	135801-29
30	C6	0.01 M Magnesium chloride	0.05 M HEPES Sodium salt pH 7.0	1.6 M Ammonium sulfate	135801-30
31	C7	0.005 M Magnesium chloride	0.05 M HEPES Sodium salt pH 7.0	25% (v/v) PEG MME 550	135801-31
32	C8	0.2 M Potassium chloride; 0.01 M Magnesium chloride	0.05 M HEPES Sodium salt pH 7.0	20% (w/v) 1,6-Hexanediol	135801-32
33	C9	0.2 M Ammonium chloride; 0.01 M Magnesium chloride	0.05 M HEPES Sodium salt pH 7.0	30% (w/v) 1,6-Hexanediol	135801-33
34	C10	0.1 M Potassium chloride; 0.005 M Magnesium sulfate	0.05 M HEPES Sodium salt pH 7.0	15% (v/v) MPD	135801-34
35	C11	0.1 M Potassium chloride; 0.01 M Magnesium chloride	0.05 M HEPES Sodium salt pH 7.0	5% (v/v) PEG 400	135801-35
36	C12	0.1 M Potassium chloride; 0.01 M Calcium chloride	0.05 M HEPES Sodium salt pH 7.0	10% (v/v) PEG 400	135801-36
37	D1	0.2 M Potassium chloride; 0.025 M Magnesium sulfate	0.05 M HEPES Sodium salt pH 7.0	20% (v/v) PEG 200	135801-37
38	D2	0.2 M Ammonium acetate; 0.15 M Magnesium acetate	0.05 M HEPES Sodium salt pH 7.0	5% (w/v) PEG 4000	135801-38
39	D3	0.1 M Ammonium acetate; 0.02 M Magnesium chloride	0.05 M HEPES Sodium salt pH 7.0	5% (w/v) PEG 8000	135801-39
40	D4	0.01 M Magnesium chloride	0.05 M TRIS.HCl pH 7.5	1.6 M Ammonium sulfate	135801-40
41	D5	0.1 M Potassium chloride; 0.015 M Magnesium chloride	0.05 M TRIS.HCl pH 7.5	10% (v/v) PEG MME 550	135801-41
42	D6	0.01 M Magnesium acetate	0.05 M TRIS.HCl pH 7.5	5% (v/v) Isopropanol	135801-42
43	D7	0.05 M Ammonium acetate; 0.01 M Magnesium chloride	0.05 M TRIS.HCl pH 7.5	10% (v/v) MPD	135801-43
44	D8	0.2 M Potassium chloride; 0.05 M Magnesium chloride	0.05 M TRIS.HCl pH 7.5	10% (w/v) PEG 4000	135801-44
45	D9	0.025 M Magnesium sulfate	0.05 M TRIS.HCl pH 8.5	1.8 M Ammonium sulfate	135801-45
46	D10	0.005 M Magnesium sulfate	0.05 M TRIS.HCl pH 8.5	35% (w/v) 1,6-Hexanediol	135801-46
47	D11	0.1 M Potassium chloride; 0.01 M Magnesium chloride	0.05 M TRIS.HCl pH 8.5	30% (v/v) PEG 400	135801-47
48	D12	0.2 M Ammonium chloride; 0.01 M Calcium chloride	0.05 M TRIS.HCl pH 8.5	30% (w/v) PEG 4000	135801-48
49	E1	2.5 mM Spermine; 80 mM Magnesium chloride	0.05 M HEPES pH 7.5		135801-49

## THE NUCLEIX SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	100 ml Refill SKU
50	E2	2.25 mM Spermine; 18 mM Magnesium chloride; 1 mM Copper sulfate	0.05 M Sodium cacodylate pH 6.0	9% (v/v) Isopropanol	135801-50
51	E3	0.9 mM Spermine; 18 mM Magnesium chloride; 1.8 mM Cobalt (III) hexamine chloride	0.05 M Sodium cacodylate pH 6.5	9% (v/v) Isopropanol	135801-51
52	E4	2.25 mM Spermine; 18 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	9% (v/v) Isopropanol	135801-52
53	E5	2.25 mM Spermine; 18 mM Magnesium chloride; 0.9 mM Cobalt (III) hexamine chloride	0.05 M Sodium cacodylate pH 7.0	4.5% (v/v) MPD	135801-53
54	E6	2.25 mM Spermine; 36 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	5% (v/v) PEG 400	135801-54
55	E7	2.0 mM Cobalt (III) hexamine chloride; 10 mM Magnesium chloride	0.05 M Sodium succinate pH 5.5	10% (v/v) Isopropanol	135801-55
56	E8	1.0 mM Spermine; 20 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	15% (v/v) Ethanol	135801-56
57	E9	1.0 mM Spermine; 20 mM Magnesium chloride; 1.0 mM Cobalt (III) hexamine chloride	0.05 M Sodium cacodylate pH 7.0	15% (v/v) Ethanol	135801-57
58	E10	1.0 mM Spermidine; 5 mM Magnesium chloride	0.05 M Sodium cacodylate pH 7.0	10% (v/v) tert-Butanol	135801-58
59	E11	2.5 mM Spermine; 30 mM Magnesium chloride	0.05 M Sodium cacodylate pH 7.0	5% (v/v) PEG 400	135801-59
60	E12	2.0 mM Cobalt (III) hexamine chloride; 100 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	5% (v/v) Isopropanol	135801-60
61	F1	1.0 mM Cobalt (III) hexamine chloride; 10 mM Magnesium chloride	0.05 M TRIS pH 8.0	20% (v/v) Ethanol	135801-61
62	F2	1.0 mM Spermine; 20 mM Magnesium chloride	0.05 M HEPES pH 7.5	5% (w/v) PEG 8000	135801-62
63	F3	2.5 mM Spermine; 20 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	5% (w/v) PEG 4000	135801-63
64	F4	2.5 mM Spermine; 10 mM Magnesium chloride; 5 mM Calcium chloride	0.05 M Sodium cacodylate pH 6.0	10% (v/v) Isopropanol	135801-64
65	F5	2.25 mM Spermine; 0.9 mM Spermidine; 1.8 mM Cobalt (III) hexamine chloride; 9 mM Magnesium chloride	0.05 M Sodium cacodylate pH 7.0	5% (v/v) PEG 400	135801-65
66	F6	2.5 mM Spermine; 10 mM Magnesium chloride; 1 mM Copper sulfate	0.05 M Sodium cacodylate pH 6.5	10% (v/v) Isopropanol	135801-66
67	F7	1.0 mM Spermine; 20 mM Magnesium chloride; 2 mM Calcium chloride	0.05 M Sodium cacodylate pH 6.0	10% (v/v) 1,5-Hexandiol	135801-67
68	F8	1.0 mM Spermidine; 15 mM Magnesium chloride	0.05 M HEPES pH 7.5	10% (v/v) Dioxane	135801-68
69	F9	3.0 mM Spermine; 15 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	10% (v/v) PEG 400	135801-69
70	F10	18 mM Calcium chloride; 2.5 mM Spermine	0.05 M Sodium cacodylate pH 6.5	9% (v/v) Isopropanol	135801-70
71	F11	1.0 mM Cobalt (III) hexamine chloride; 2.0 mM Spermine; 80 mM Calcium chloride	0.05 M Sodium cacodylate pH 6.5		135801-71
72	F12	2.5 mM Cobalt (III) hexamine chloride; 5 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5		135801-72
73	G1	1.0 mM Spermine; 30 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	1.3 M Lithium sulfate	135801-73
74	G2	200 mM Calcium acetate	0.05 M Sodium cacodylate pH 6.0	5% (v/v) Isopropanol	135801-74
75	G3	1.0 mM Cobalt (III) hexamine chloride; 100 nM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	10% (v/v) Ethanol	135801-75
76	G4	2.5 mM Spermidine; 10 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	2.5 M Sodium chloride	135801-76
77	G5	200 mM tri-Na citrate; 10 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	5% (v/v) Isopropanol	135801-77
78	G6	10.0 mM Spermine; 15 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	2.0 M Lithium sulfate	135801-78
79	G7	1.0 mM Spermine; 20 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	2.0 M Ammonium sulfate	135801-79
80	G8	1.5 mM Spermine; 10 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	3.0 M Ammonium sulfate	135801-80
81	G9	1.0 mM Spermine; 15 mM Magnesium chloride	0.05 M HEPES pH 7.5	1.0 M Ammonium sulfate	135801-81
82	G10	200 mM Calcium acetate	0.05 M Sodium cacodylate pH 6.0	2.5 M Sodium chloride	135801-82
83	G11	1.0 mM Cobalt (III) hexamine chloride; 200 mM Calcium acetate	0.05 M Sodium cacodylate pH 6.0	2.0 M Lithium chloride	135801-83
84	G12	5.0 mM Spermidine; 15 mM Magnesium chloride; 1.0 mM Cobalt (III) hexamine chloride	0.05 M Sodium cacodylate pH 6.5	2.0 M Sodium chloride	135801-84
85	H1	100 mM Sodium chloride; 200 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	20% (w/v) PEG 1000	135801-85
86	H2	50 mM Magnesium chloride	0.05 M TRIS pH 7.5	1.0 M Sodium tartrate	135801-86
87	H3	200 mM Magnesium chloride	0.05 M TRIS pH 7.5	2.5 M Sodium chloride	135801-87
88	H4	200 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	2.5 M Potassium chloride	135801-88

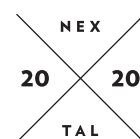


## THE NUCLEIX SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	100 ml Refill SKU
89	H5	200 mM Magnesium chloride	0.05 M TRIS pH 8.0	15% (v/v) Ethanol	135801-89
90	H6	5.0 mM Spermidine; 15 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	2.0 M Lithium sulfate	135801-90
91	H7	0.5 mM Spermine; 20 mM Magnesium acetate; 100 mM Sodium chloride	0.05 M Sodium cacodylate pH 6.0	25% (v/v) MPD	135801-91
92	H8	0.5 mM Spermine; 20 mM Magnesium chloride	0.05 M Sodium succinate pH 5.5	3.0 M Ammonium sulfate	135801-92
93	H9	5 mM Cobalt (III) hexammine chloride	0.05 M Sodium cacodylate pH 6.5	2.5 M Potassium chloride	135801-93
94	H10	2.0 mM Cobalt (III) hexammine chloride; 50 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	1.5 M Lithium sulfate	135801-94
95	H11	2.0 mM Cobalt (III) hexammine chloride; 1.0 mM Spermine; 30 mM Calcium chloride	0.05 M Sodium cacodylate pH 6.5	2.0 M Lithium chloride	135801-95
96	H12	50 mM Spermine	0.05 M Sodium cacodylate pH 6.5	10 mM Magnesium chloride	135801-96

### Other NeXtal Crystallization Screens Available

- 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 CompPAS Suite
- The PACT Suite
- The Nucleix Suite
- The JCSG+ Suite
- The JCSG Core I-IV Suites
- The Opti-Salts Suite



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

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# NeXtal