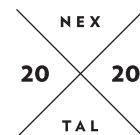


# *THE JCSG+ SUITE*

**FOR SCREENING OF PROTEIN CRYSTALLIZATION CONDITIONS**



## **The JCSG+ Suites provide:**

- A ready-to-use kit format to which only protein needs to be added, for easy and fast screening
- Premixed suite based on the results of the Joint Center for Structural Genomics (1) and members of the European Genomics Consortium (2)
- A controlled environment and fresh solutions every time

The JCSG+ 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.

1. Page, R. et al. (2003) Acta. Cryst. D59, 1028.
2. Newman, J. et al. (2005) Acta. Cryst. D61, 1426.

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



**NeXtal**

## THE JCSG+ SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	Final pH	Refill-Hit Solution SKU
1	A1	0.2 M Lithium sulfate	0.1 M Sodium acetate pH 4.5	50% (v/v) PEG 400		135901-01
2	A2		0.1 M tri-Sodium citrate pH 5.5	20% (w/v) PEG 3000		135901-02
3	A3	0.18 M tri-Ammonium citrate		20% (w/v) PEG 3350		135901-03
4	A4	0.02 M Calcium chloride	0.1 M Sodium acetate pH 4.6	30% (v/v) MPD		135901-04
5	A5	0.2 M Magnesium formate		20% (w/v) PEG 3350		135901-05
6	A6	0.2 M Lithium sulfate	0.1 M Phosphate-citrate pH 4.2	20% (w/v) PEG 1000		135901-06
7	A7		0.1 M CHES pH 9.5	20% (w/v) PEG 8000		135901-07
8	A8	0.2 M Ammonium formate		20% (w/v) PEG 3350		135901-08
9	A9	0.2 M Ammonium chloride		20% (w/v) PEG 3350		135901-09
10	A10	0.2 M Potassium formate		20% (w/v) PEG 3350		135901-10
11	A11	0.2 M Ammonium phosphate	0.1 M TRIS pH 8.5	50% (v/v) MPD		135901-11
12	A12	0.2 M Potassium nitrate		20% (w/v) PEG 3350		135901-12
13	B1	0.8 M Ammonium sulfate	0.1 M Citric acid pH 3.5		4.0	135901-13
14	B2	0.2 M Sodium thiocyanate		20% (w/v) PEG 3350		135901-14
15	B3		0.1 M BICINE pH 8.5	20% (w/v) PEG 6000	9.0	135901-15
16	B4		0.1 M HEPES pH 7.5	10% (w/v) PEG 8000; 8%(v/v) Ethylene glycol		135901-16
17	B5		0.1 M Sodium cacodylate pH 6.5	40% (v/v) MPD; 5%(w/v) PEG 8000		135901-17
18	B6		0.1 M Phosphate-citrate pH 4.2	40% (v/v) Ethanol; 5%(w/v) PEG 1000		135901-18
19	B7		0.1 M Sodium acetate pH 4.6	8% (w/v) PEG 4000		135901-19
20	B8	0.2 M Magnesium chloride	0.1 M TRIS pH 7.0	10% (w/v) PEG 8000		135901-20
21	B9		0.1 M Citric acid pH 4.0	20% (w/v) PEG 6000	5.0	135901-21
22	B10	0.2 M Magnesium chloride	0.1 M Sodium cacodylate pH 6.5	50% (v/v) PEG 200		135901-22
23	B11		1.6 M tri-Sodium citrate pH 6.5		6.5	135901-23
24	B12	0.2 M tri-Potassium citrate		20% (w/v) PEG 3350		135901-24
25	C1	0.2 M Sodium chloride	0.1 M Phosphate-citrate pH 4.2	20% (w/v) PEG 8000		135901-25
26	C2	1 M Lithium chloride	0.1 M Citric acid pH 4.0	20% (w/v) PEG 6000	4.0	135901-26
27	C3	0.2 M Ammonium nitrate		20% (w/v) PEG 3350		135901-27
28	C4		0.1 M HEPES pH 6.5	10% (w/v) PEG 6000	7.0	135901-28
29	C5	0.8 M Sodium phosphate; 0.8 M Potassium phosphate	0.1 M HEPES pH 7.5			135901-29
30	C6		0.1 M Phosphate-citrate pH 4.2	40% (v/v) PEG 300		135901-30
31	C7	0.2 M Zinc acetate	0.1 M Sodium acetate pH 4.5	10% (w/v) PEG 3000		135901-31
32	C8		0.1 M TRIS pH 8.5	20% (v/v) Ethanol		135901-32
33	C9		0.1 M Na/K phosphate pH 6.2	25% (v/v) 1,2 propanediol; 10%(v/v) Glycerol		135901-33
34	C10		0.1 M BICINE pH 9.0	10% (w/v) PEG 20000; 2%(v/v) 1,4-Dioxane		135901-34
35	C11	2 M Ammonium sulfate	0.1 M Sodium acetate pH 4.6			135901-35
36	C12			10% (w/v) PEG 1000; 10% (w/v) PEG 8000		135901-36
37	D1			24% (w/v) PEG 1500; 20% (w/v) Glycerol		135901-37
38	D2	0.2 M Magnesium chloride	0.1 M HEPES pH 7.5	30% (v/v) PEG 400		135901-38
39	D3	0.2 M Sodium chloride	0.1 M Na/K phosphate pH 6.2	50% (v/v) PEG 200		135901-39
40	D4	0.2 M Lithium sulfate	0.1 M Sodium acetate pH 4.5	30% (w/v) PEG 8000		135901-40
41	D5		0.1 M HEPES pH 7.5	70% (v/v) MPD		135901-41
42	D6	0.2 M Magnesium chloride	0.1 M TRIS pH 8.5	20% (w/v) PEG 8000		135901-42
43	D7	0.2 M Lithium sulfate	0.1 M TRIS pH 8.5	40% (v/v) PEG 400		135901-43
44	D8		0.1 M TRIS pH 8.0	40% (v/v) MPD	8.0	135901-44
45	D9	0.17 M Ammonium sulfate		25.5% (w/v) PEG 4000; 15%(v/v) Glycerol		135901-45
46	D10	0.2 M Calcium acetate	0.1 M Sodium cacodylate pH 6.5	40% (v/v) PEG 300		135901-46
47	D11	0.14 M Calcium chloride	0.07 M Sodium acetate pH 4.6	14% (v/v) Isopropanol; 30%(v/v) Glycerol		135901-47
48	D12	0.04 M Potassium phosphate		16% (w/v) PEG 8000; 20%(v/v) Glycerol		135901-48
49	E1	1 M tri-Sodium citrate	0.1 M Sodium cacodylate pH 6.5			135901-49



## THE JCSG+ SUITE COMPOSITION TABLE

#	Well	Salt	Buffer	Precipitant	Final pH	Refill-Hit Solution SKU
50	E2	0.2 M Sodium chloride	0.1 M Sodium cacodylate pH 6.5	2 M Ammonium sulfate		135901-50
51	E3	0.2 M Sodium chloride	0.1 M HEPES pH 7.5	10% (v/v) Isopropanol		135901-51
52	E4	0.2 M Lithium sulfate	0.1 M TRIS pH 8.5	1.26 M Ammonium sulfate		135901-52
53	E5		0.1 M CAPS pH 10.5	40% (v/v) MPD		135901-53
54	E6	0.2 M Zinc acetate	0.1 M Imidazole pH 8.0	20% (w/v) PEG 3000		135901-54
55	E7	0.2 M Zinc acetate	0.1 M Sodium cacodylate pH 6.5	10% (v/v) Isopropanol		135901-55
56	E8	1 M di-Ammonium phosphate	0.1 M Sodium acetate pH 4.5			135901-56
57	E9	1.6 M Magnesium sulfate	0.1 M MES pH 6.5			135901-57
58	E10		0.1 M BICINE pH 9.0	10% (w/v) PEG 6000	9.0	135901-58
59	E11	0.16 M Calcium acetate	0.08 M Sodium cacodylate pH 6.5	14.4% (w/v) PEG 8000; 20%(v/v) Glycerol		135901-59
60	E12		0.1 M Imidazole pH 8.0	10% (w/v) PEG 8000		135901-60
61	F1	0.05 M Cesium chloride	0.1 M MES pH 6.5	30% (v/v) Jeffamine M-600		135901-61
62	F2	3.2 M Ammonium sulfate	0.1 M Citric acid pH 4.0		5.0	135901-62
63	F3		0.1 M TRIS pH 8.5	20% (v/v) MPD	8.0	135901-63
64	F4		0.1 M HEPES pH 7.5	20% (v/v) Jeffamine M-600		135901-64
65	F5	0.2 M Magnesium chloride	0.1 M TRIS pH 8.5	50% (v/v) Ethylene glycol		135901-65
66	F6		0.1 M BICINE pH 8.5	10% (v/v) MPD	9.0	135901-66
67	F7	0.8 M Succinic acid pH 7.0				135901-67
68	F8	2.1 M DL-Malic acid pH 7.0				135901-68
69	F9	2.4 M Sodium malonate pH 7.0				135901-69
70	F10	1.1 M Sodium malonate	0.1 M HEPES pH 7.0	0.5% (v/v) Jeffamine ED-2001	7.0	135901-70
71	F11	1 M Succinic acid	0.1 M HEPES pH 7.0	1% (w/v) PEG MME 2000	7.0	135901-71
72	F12		0.1 M HEPES pH 7.0	30% (v/v) Jeffamine M-600	7.0	135901-72
73	G1		0.1 M HEPES pH 7.0	30% (v/v) Jeffamine ED-2001	7.0	135901-73
74	G2	0.02 M Magnesium chloride	0.1 M HEPES pH 7.5	22% (w/v) Polyacrylic acid 5100 sodium salt		135901-74
75	G3	0.01 M Cobalt chloride	0.1 M TRIS pH 8.5	20% (w/v) Polyvinylpyrrolidone K15		135901-75
76	G4	0.2 M Trimethylamine N-oxide	0.1 M TRIS pH 8.5	20% (w/v) PEG MME 2000		135901-76
77	G5	0.005 M Cobalt chloride; 0.005 M Cadmium chloride; 0.005 M Magnesium chloride; 0.005 M Nickel chloride	0.1 M HEPES pH 7.5	12% (w/v) PEG 3350		135901-77
78	G6	0.24 M Sodium malonate pH 7.0		20% (w/v) PEG 3350		135901-78
79	G7	0.1 M Succinic acid pH 7.0		15% (w/v) PEG 3350		135901-79
80	G8	0.15 M DL-Malic acid pH 7.0		20% (w/v) PEG 3350		135901-80
81	G9	0.1 M Potassium thiocyanate		30% (w/v) PEG MME 2000		135901-81
82	G10	0.15 M Potassium bromide		30% (w/v) PEG MME 2000		135901-82
83	G11	2 M Ammonium sulfate	0.1 M BIS-TRIS pH 5.5			135901-83
84	G12	3 M Sodium chloride	0.1 M BIS-TRIS pH 5.5			135901-84
85	H1	0.3 M Magnesium formate	0.1 M BIS-TRIS pH 5.5			135901-85
86	H2	1 M Ammonium sulfate	0.1 M BIS-TRIS pH 5.5	1% (w/v) PEG 3350		135901-86
87	H3	0.1 M tri-Sodium acetate pH 4.5	0.1 M BIS-TRIS pH 5.5	25% (w/v) PEG 3350		135901-87
88	H4	0.2 M Calcium chloride	0.1 M BIS-TRIS pH 5.5	45% (v/v) MPD		135901-88
89	H5	0.2 M Ammonium acetate	0.1 M BIS-TRIS pH 5.5	45% (v/v) MPD		135901-89
90	H6	0.1 M Ammonium acetate	0.1 M BIS-TRIS pH 5.5	17% (w/v) PEG 10,000		135901-90
91	H7	0.2 M Ammonium sulfate	0.1 M BIS-TRIS pH 5.5	25% (w/v) PEG 3350		135901-91
92	H8	0.2 M Sodium chloride	0.1 M BIS-TRIS pH 5.5	25% (w/v) PEG 3350		135901-92
93	H9	0.2 M Lithium sulfate	0.1 M BIS-TRIS pH 5.5	25% (w/v) PEG 3350		135901-93
94	H10	0.2 M Ammonium acetate	0.1 M BIS-TRIS pH 5.5	25% (w/v) PEG 3350		135901-94
95	H11	0.2 M Magnesium chloride	0.1 M BIS-TRIS pH 5.5	25% (w/v) PEG 3350		135901-95
96	H12	0.2 M Ammonium acetate	0.1 M HEPES pH 7.5	45% (v/v) MPD		135901-96

### 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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