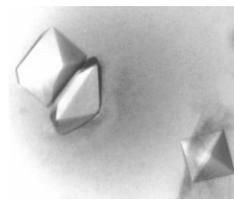


The Nucleix Suite

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 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 Nucleix Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
1	0.01 M Magnesium chloride	0.05 M MES pH 5.6	2 M Lithium sulfate	135801
2	0.01 M Magnesium acetate	0.05 M MES pH 5.6	2.5 M Ammonium sulfate	135802
3	0.1 M Magnesium acetate	0.05 M MES pH 5.6	20% (v/v) MPD	135803
4	0.2 M Potassium chloride; 0.01 M Magnesium sulfate	0.05 M MES pH 5.6	10% (v/v) PEG 400	135804
5	0.2 M Potassium chloride; 0.01 M Magnesium chloride	0.05 M MES pH 5.6	5% (w/v) PEG 8000	135805
6	0.1 M Ammonium sulfate; 0.01 M Magnesium chloride	0.05 M MES pH 5.6	20% (w/v) PEG 8000	135806
7	0.02 M Magnesium chloride	0.05 M MES pH 6.0	15% (v/v) Isopropanol	135807
8	0.1 M Ammonium acetate; 0.005 M Magnesium sulfate	0.05 M MES pH 6.0	0.6 M Sodium chloride	135808
9	0.1 M Potassium chloride; 0.01 M Magnesium chloride	0.05 M MES pH 6.0	10% (v/v) PEG 400	135809
10	0.005 M Magnesium sulfate	0.05 M MES pH 6.0	5% (w/v) PEG 4000	135810
11	0.01 M Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	1 M Lithium sulfate	135811
12	0.01 M Magnesium sulfate	0.05 M Sodium cacodylate pH 6.0	1.8 M Lithium sulfate	135812
13	0.015 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.0	1.7 M Ammonium sulfate	135813
14	0.1 M Potassium chloride; 0.025 M Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	15% (v/v) Isopropanol	135814
15	0.04 M Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	5% (v/v) MPD	135815
16	0.04 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.0	30% (v/v) MPD	135816
17	0.2 M Potassium chloride; 0.01 M Calcium chloride	0.05 M Sodium cacodylate pH 6.0	10% (w/v) PEG 4000	135817
18	0.01 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.5	1.3 M Lithium sulfate	135818
19	0.01 M Magnesium sulfate	0.05 M Sodium cacodylate pH 6.5	2 M Ammonium sulfate	135819
20	0.1 M Ammonium acetate; 0.015 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.5	10% (v/v) Isopropanol	135820
21	0.2 M Potassium chloride; 0.005 M Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	10% (w/v) 1,6-Hexanediol	135821
22	0.08 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.5	15% (v/v) PEG 400	135822
23	0.2 M Potassium chloride; 0.01 M Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	10% (w/v) PEG 4000	135823
24	0.2 M Ammonium acetate; 0.01 M Calcium chloride	0.05 M Sodium cacodylate pH 6.5	10% (w/v) PEG 4000	135824
25	0.08 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.5	30% (w/v) PEG 4000	135825
26	0.2 M Potassium chloride; 0.1 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.5	10% (w/v) PEG 8000	135826
27	0.2 M Ammonium acetate; 0.01 M Magnesium acetate	0.05 M Sodium cacodylate pH 6.5	30% (w/v) PEG 8000	135827
28	0.05 M Magnesium sulfate	0.05 M HEPES Sodium salt pH 7.0	1.6 M Lithium sulfate	135828
29	0.01 M Magnesium chloride	0.05 M HEPES Sodium salt pH 7.0	4 M Lithium chloride	135829
30	0.01 M Magnesium chloride	0.05 M HEPES Sodium salt pH 7.0	1.6 M Ammonium sulfate	135830
31	0.005 M Magnesium chloride	0.05 M HEPES Sodium salt pH 7.0	25% (v/v) PEG MME 550	135831
32	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	135832
33	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	135833
34	0.1 M Potassium chloride; 0.005 M Magnesium sulfate	0.05 M HEPES Sodium salt pH 7.0	15% (v/v) MPD	135834
35	0.1 M Potassium chloride; 0.01 M Magnesium chloride	0.05 M HEPES Sodium salt pH 7.0	5% (v/v) PEG 400	135835
36	0.1 M Potassium chloride; 0.01 M Calcium chloride	0.05 M HEPES Sodium salt pH 7.0	10% (v/v) PEG 400	135836
37	0.2 M Potassium chloride; 0.025 M Magnesium sulfate	0.05 M HEPES Sodium salt pH 7.0	20% (v/v) PEG 200	135837
38	0.2 M Ammonium acetate; 0.15 M Magnesium acetate	0.05 M HEPES Sodium salt pH 7.0	5% (w/v) PEG 4000	135838
39	0.1 M Ammonium acetate; 0.02 M Magnesium chloride	0.05 M HEPES Sodium salt pH 7.0	5% (w/v) PEG 8000	135839
40	0.01 M Magnesium chloride	0.05 M Tris-HCl pH 7.5	1.6 M Ammonium sulfate	135840
41	0.1 M Potassium chloride; 0.015 M Magnesium chloride	0.05 M Tris-HCl pH 7.5	10% (v/v) PEG MME 550	135841
42	0.01 M Magnesium acetate	0.05 M Tris-HCl pH 7.5	5% (v/v) Isopropanol	135842
43	0.05 M Ammonium acetate; 0.01 M Magnesium chloride	0.05 M Tris-HCl pH 7.5	10% (v/v) MPD	135843
44	0.2 M Potassium chloride; 0.05 M Magnesium chloride	0.05 M Tris-HCl pH 7.5	10% (w/v) PEG 4000	135844
45	0.025 M Magnesium sulfate	0.05 M Tris-HCl pH 8.5	1.8 M Ammonium sulfate	135845
46	0.005 M Magnesium sulfate	0.05 M Tris-HCl pH 8.5	35% (w/v) 1,6-Hexanediol	135846
47	0.1 M Potassium chloride; 0.01 M Magnesium chloride	0.05 M Tris-HCl pH 8.5	30% (v/v) PEG 400	135847
48	0.2 M Ammonium chloride; 0.01 M Calcium chloride	0.05 M Tris-HCl pH 8.5	30% (w/v) PEG 4000	135848

The Nucleix Suite Composition Table

Number	Salt	Buffer	Precipitant	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
49	2.5 mM Spermine; 80 mM Magnesium chloride	0.05 M HEPES pH 7.5		135849
50	2.25 mM Spermine; 18 mM Magnesium chloride; 1 mM Copper sulfate	0.05 M Sodium cacodylate pH 6.0	9% (v/v) Isopropanol	135850
51	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	135851
52	2.25 mM Spermine; 18 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	9% (v/v) Isopropanol	135852
53	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	135853
54	2.25 mM Spermine; 36 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	5% (v/v) PEG 400	135854
55	2.0 mM Cobalt(III)hexamine chloride; 10 mM Magnesium chloride	0.05 M Sodium succinate pH 5.5	10% (v/v) Isopropanol	135855
56	1.0 mM Spermine; 20 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	15% (v/v) Ethanol	135856
57	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	135857
58	1.0 mM Spermidine; 5 mM Magnesium chloride	0.05 M Sodium cacodylate pH 7.0	10% (v/v) tert-Butanol	135858
59	2.5 mM Spermine; 30 mM Magnesium chloride	0.05 M Sodium cacodylate pH 7.0	5% (v/v) PEG 400	135859
60	2.0 mM Cobalt(III)hexamine chloride; 100 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	5% (v/v) Isopropanol	135860
61	1.0 mM Cobalt(III)hexamine chloride; 10 mM Magnesium chloride	0.05 M Tris pH 8.0	20% (v/v) Ethanol	135861
62	1.0 mM Spermine; 20 mM Magnesium chloride	0.05 M HEPES pH 7.5	5% (w/v) PEG 8000	135862
63	2.5 mM Spermine; 20 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	5% (w/v) PEG 4000	135863
64	2.5 mM Spermine; 10 mM Magnesium chloride; 5 mM Calcium chloride	0.05 M Sodium cacodylate pH 6.0	10% (v/v) Isopropanol	135864
65	2.25 mM Spermine; 9 mM Magnesium chloride; 0.9 mM Spermidine; 1.8 mM Cobalt(III)hexamine chloride	0.05 M Sodium cacodylate pH 7.0	5% (v/v) PEG 400	135865
66	2.5 mM Spermine; 10 mM Magnesium chloride; 1 mM Copper sulfate	0.05 M Sodium cacodylate pH 6.5	10% (v/v) Isopropanol	135866
67	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	135867
68	1.0 mM Spermidine; 15 mM Magnesium chloride	0.05 M HEPES pH 7.5	10% (v/v) Dioxane	135868
69	3.0 mM Spermine; 15 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	10% (v/v) PEG 400	135869
70	18 mM Calcium chloride; 2.5 mM Spermine	0.05 M Sodium cacodylate pH 6.5	9% (v/v) Isopropanol	135870
71	1.0 mM Cobalt(III)hexamine chloride; 2.0 mM Spermine; 80 mM Calcium chloride	0.05 M Sodium cacodylate pH 6.5		135871
72	2.5 mM Cobalt(III)hexamine chloride; 5 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5		135872
73	1.0 mM Spermine; 30 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	1.3 M Lithium sulfate	135873
74	200 mM Calcium acetate	0.05 M Sodium cacodylate pH 6.0	5% (v/v) Isopropanol	135874
75	1.0 mM Cobalt(III)hexamine chloride; 100 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	10% (v/v) Ethanol	135875
76	2.5 mM Spermidine; 10 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	2.5 M Sodium chloride	135876
77	200 mM tri-Na citrate; 10 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	5% (v/v) Isopropanol	135877
78	10.0 mM Spermine; 15 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	2.0 M Lithium sulfate	135878
79	1.0 mM Spermine; 20 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	2.0 M Ammonium sulfate	135879
80	1.5 mM Spermine; 10 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	3.0 M Ammonium sulfate	135880
81	1.0 mM Spermine; 15 mM Magnesium chloride	0.05 M HEPES pH 7.5	1.0 M Ammonium sulfate	135881
82	200 mM Calcium acetate	0.05 M Sodium cacodylate pH 6.0	2.5 M Sodium chloride	135882
83	1.0 mM Cobalt(III)hexamine chloride; 200 mM Calcium acetate	0.05 M Sodium cacodylate pH 6.0	2.0 M Lithium chloride	135883
84	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	135884
85	100 mM Sodium chloride; 200 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	20% (w/v) PEG 1000	135885
86	50 mM Magnesium chloride	0.05 M Tris pH 7.5	1.0 M Sodium tartrate	135886
87	200 mM Magnesium chloride	0.05 M Tris pH 7.5	2.5 M Sodium chloride	135887
88	200 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	2.5 M Potassium chloride	135888
89	200 mM Magnesium chloride	0.05 M Tris pH 8.0	15% (v/v) Ethanol	135889
90	5.0 mM Spermidine; 15 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.0	2.0 M Lithium sulfate	135890
91	0.5 mM Spermine; 20 mM Magnesium acetate; 100 mM Sodium chloride	0.05 M Sodium cacodylate pH 6.0	25% (v/v) MPD	135891
92	0.5 mM Spermine; 20 mM Magnesium chloride	0.05 M Sodium succinate pH 5.5	3.0 M Ammonium sulfate	135892
93	5 mM Cobalt(III)hexamine chloride	0.05 M Sodium cacodylate pH 6.5	2.5 M Potassium chloride	135893
94	2.0 mM Cobalt(III)hexamine chloride; 50 mM Magnesium chloride	0.05 M Sodium cacodylate pH 6.5	1.5 M Lithium sulfate	135894
95	2.0 mM Cobalt(III)hexamine chloride; 1.0 mM Spermine; 30 mM Calcium chloride	0.05 M Sodium cacodylate pH 6.5	2.0 M Lithium chloride	135895
96	50 mM Spermine	0.05 M Sodium cacodylate pH 6.5	10 mM Magnesium chloride	135896

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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