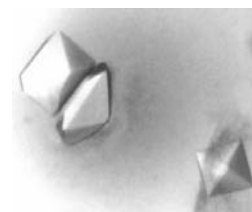


The JCSG+ Suite

For screening of protein crystallization conditions



The JCSG+ Suite provides:

- 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 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.

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

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



JCSG+ Suite Refill-Hit Solutions (4 x 12.5 ml tubes)

Number	Salt(s)	Buffer	Precipitant	Cat. no.
1	0.2 M Lithium sulfate	0.1 M Sodium acetate pH 4.5	50% w/v PEG 400	135901
2		0.1 M tri-Sodium citrate pH 5.5	20% w/v PEG 3000	135902
3	0.2 M di-Ammonium citrate pH 5.0		20% w/v PEG 3350	135903
4	0.02 M Calcium chloride	0.1 M Sodium acetate pH 4.6	30% v/v MPD	135904
5	0.2 M Magnesium formate pH 5.9		20% w/v PEG 3350	135905
6	0.2 M Lithium sulfate	0.1 M Phosphate-citrate pH 4.2	20% w/v PEG 1000	135906
7		0.1 M CHES pH 9.5	20% w/v PEG 8000	135907
8	0.2 M Ammonium formate pH 6.6		20% w/v PEG 3350	135908
9	0.2 M Ammonium chloride pH 6.3		20% w/v PEG 3350	135909
10	0.2 M Potassium formate pH 7.3		20% w/v PEG 3350	135910
11	0.2 M Ammonium phosphate	0.1 M Tris pH 8.5	50% v/v MPD	135911
12	0.2 M Potassium nitrate pH 6.9		20% w/v PEG 3350	135912
13	0.8 M Ammonium sulfate	0.1 M Citric acid pH 4		135913
14	0.2 M Sodium thiocyanate pH 6.9		20% w/v PEG 3350	135914
15		0.1 M BICINE pH 9	20% w/v PEG 6000	135915
16		0.1 M HEPES pH 7.5	10% w/v PEG 8000, 8% v/v Ethylene glycol	135916
17		0.1 M Sodium cacodylate pH 6.5	40% v/v MPD, 5% w/v PEG 8000	135917
18		0.1 M Phosphate-citrate pH 4.2	40% v/v Ethanol, 5% w/v PEG 1000	135918
19		0.1 M Sodium acetate pH 4.6	8% w/v PEG 4000	135919
20	0.2 M Magnesium chloride	0.1 M Tris pH 7	10% w/v PEG 8000	135920
21		0.1 M Citric acid pH 5	20% w/v PEG 6000	135921
22	0.2 M Magnesium chloride	0.1 M Sodium cacodylate pH 6.5	50% v/v PEG 200	135922
23	1.6 M tri-Sodium citrate			135923
24	0.2 M tri-Potassium citrate pH 8.3		20% w/v PEG 3350	135924
25	0.2 M Sodium chloride	0.1 M Phosphate-citrate pH 4.2	20% w/v PEG 8000	135925
26	1 M Lithium chloride	0.1 M Citric acid pH 4	20% w/v PEG 6000	135926
27	0.2 M Ammonium nitrate pH 6.3		20% w/v PEG 3350	135927
28		0.1 M HEPES pH 7	10% w/v PEG 6000	135928
29		0.1 M HEPES pH 7.5	0.8 M Sodium phosphate, 0.8 M Potassium phosphate	135929
30		0.1 M Phosphate-citrate pH 4.2	40% v/v PEG 300	135930
31	0.2 M Zinc acetate	0.1 M Sodium acetate pH 4.5	10% w/v PEG 3000	135931
32		0.1 M Tris pH 8.5	20% v/v Ethanol	135932
33		0.1 M Na/K phosphate pH 6.2	25% v/v 1,2 propandiol, 10% v/v Glycerol	135933
34		0.1 M BICINE pH 9	10% w/v PEG 20000, 2 %v/v Dioxane	135934
35	2 M Ammonium sulfate	0.1 M Sodium acetate pH 4.6		135935
36			10% w/v PEG 1000, 10% w/v PEG 8000	135936
37			24 %w/v PEG 1500, 20% w/v glycerol	135937
38	0.2 M Magnesium chloride	0.1 M HEPES pH 7.5	30% v/v PEG 400	135938
39	0.2 M Sodium chloride	0.1 M Na/K phosphate pH 6.2	50% v/v PEG 200	135939
40	0.2 M Lithium sulfate	0.1 M Sodium acetate pH 4.5	30% w/v PEG 8000	135940
41		0.1 M HEPES pH 7.5	70% v/v MPD	135941
42	0.2 M Magnesium chloride	0.1 M Tris pH 8.5	20% w/v PEG 8000	135942
43	0.2 M Lithium sulfate	0.1 M Tris pH 8.5	40% v/v PEG 400	135943
44		0.1 M Tris pH 8	40% v/v MPD	135944
45	0.17 M Ammonium sulfate		25.5% w/v PEG 4000, 15% v/v Glycerol	135945
46	0.2 M Calcium acetate	0.1 M Sodium cacodylate pH 6.5	40% v/v PEG 300	135946
47	0.14 M Calcium chloride	0.07 M Sodium acetate pH 4.6	14% v/v Isopropanol, 30% v/v Glycerol	135947
48	0.04 M Potassium phosphate		16% w/v PEG 8000, 20% v/v Glycerol	135948

JCSG+ Suite Refill-Hit Solutions (4 x 12.5 ml tubes)

Number	Salt(s)	Buffer	Precipitant	Cat. no.
49	1 M tri-Sodium citrate	0.1 M Sodium cacodylate pH 6.5		135949
50	0.2 M Sodium chloride	0.1 M Sodium cacodylate pH 6.5	2 M Ammonium sulfate	135950
51	0.2 M Sodium chloride	0.1 M HEPES pH 7.5	10% v/v Isopropanol	135951
52	0.2 M Lithium sulfate	0.1 M Tris pH 8.5	1.26 M Ammonium sulfate	135952
53		0.1 M CAPS pH 10.5	40% v/v MPD	135953
54	0.2 M Zinc acetate	0.1 M Imidazole pH 8	20% w/v PEG 3000	135954
55	0.2 M Zinc acetate	0.1 M Sodium cacodylate pH 6.5	10% v/v Isopropanol	135955
56	1 M di-Ammonium phosphate	0.1 M Sodium acetate pH 4.5		135956
57	1,6 M Magnesium sulfate	0.1 M MES pH 6.5		135957
58		0.1 M BICINE pH 9	10% w/v PEG 6000	135958
59	0.16 M Calcium acetate	0.08 M Sodium cacodylate pH 6.5	14.4 %w/v PEG 8000, 20% v/v Glycerol	135959
60		0.1 M Imidazole pH 8	10% w/v PEG 8000	135960
61	0.05 M Cesium chloride	0.1 M MES pH 6.5	30% w/v Jeffamine M-600	135961
62	3,15 M Ammonium sulfate	0.1 M Citric acid pH 5		135962
63		0.1 M Tris pH 8	20% v/v MPD	135963
64		0.1 M HEPES pH 6.5	20% w/v Jeffamine M-600	135964
65	0.2 M Magnesium chloride	0.1 M Tris pH 8.5	50% v/v Ethylene glycol	135965
66		0.1 M BICINE pH 9	10% v/v MPD	135966
67	0.8 M Succinic acid pH 7.0			135967
68	2,1 M DL-Malic acid pH 7.0			135968
69	2,4 M Sodium malonate pH 7.0			135969
70	1,1 M Sodium malonate pH 7.0	0.1 M HEPES pH 7	0.5 %v/v Jeffamine ED-2001 pH 7.0	135970
71	1 M Succinic acid pH 7.0	0.1 M HEPES pH 7	1% w/v PEG MME 2000	135971
72		0.1 M HEPES pH 7	30% v/v Jeffamine M-600 pH 7.0	135972
73		0.1 M HEPES pH 7	30% v/v Jeffamine ED-2001 pH 7.0	135973
74	0.02 M Magnesium chloride	0.1 M HEPES pH 7.5	22% w/v Polyacrylic acid 5100 sodium salt	135974
75	0.1 M Cobalt chloride	0.1 M Tris pH 8.5	20% w/v Polyvinylpyrrolidone K15	135975
76	0.2 M Trimethylamine N-oxide	0.1 M Tris pH 8.5	20% w/v PEG MME 2000	135976
77	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	135977
78	0.2 M Sodium malonate pH 7.0		20% w/v PEG 3350	135978
79	0.1 M Succinic acid pH 7.0		15% w/v PEG 3350	135979
80	0.15 M DL-Malic acid pH 7.0		20% w/v PEG 3350	135980
81	0.1 M Potassium thiocyanate		30% w/v PEG MME 2000	135981
82	0.15 M Potassium bromide		30% w/v PEG MME 2000	135982
83	2 M Ammonium sulfate	0.1 M bis-Tris pH 5.5		135983
84	3 M Sodium chloride	0.1 M bis-Tris pH 5.5		135984
85	0.3 M Magnesium formate	0.1 M bis-Tris pH 5.5		135985
86	1 M Ammonium sulfate	0.1 M bis-Tris pH 5.5	1% w/v PEG 3350	135986
87		0.1 M bis-Tris pH 5.5	25% w/v PEG 3350	135987
88	0.2 M Calcium chloride	0.1 M bis-Tris pH 5.5	45% v/v MPD	135988
89	0.2 M Ammonium acetate	0.1 M bis-Tris pH 5.5	45% v/v MPD	135989
90	0.1 M Ammonium acetate	0.1 M bis-Tris pH 5.5	17% w/v PEG 10,000	135990
91	0.2 M Ammonium sulfate	0.1 M bis-Tris pH 5.5	25% w/v PEG 3350	135991
92	0.2 M Sodium chloride	0.1 M bis-Tris pH 5.5	25% w/v PEG 3350	135992
93	0.2 M Lithium sulfate	0.1 M bis-Tris pH 5.5	25% w/v PEG 3350	135993
94	0.2 M Ammonium acetate	0.1 M bis-Tris pH 5.5	25% w/v PEG 3350	135994
95	0.2 M Magnesium chloride	0.1 M bis-Tris pH 5.5	25% w/v PEG 3350	135995
96	0.2 M Ammonium acetate	0.1 M HEPES pH 7.5	45% v/v MPD	135996

Protein Crystallization Suites and Formats

	EasyXtal Microplate	NeXtal Deep-Well Block	EasyXtal Tool X-Seal	EasyXtal DG Tool X-Seal	NeXtal Tubes
The Classics Suite	■	■	■	■	■
The Classics Lite 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 Opti-Salts Suite	■		■	■	
Pre-Screen Assay				■	

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