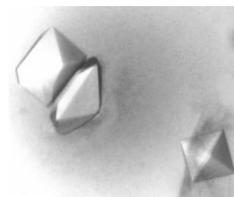


# The Opti-Salts Suite

For screening of protein crystallization conditions



The Opti-Salts Suite provides:

- A ready-to-use kit format, for easy and fast screening
- Ideal conditions for optimization of screening results
- 96 precisely defined chemical solutions representing the most important optimization variables
- The potential to test the effect of concentration, pH variation and additives on crystallization

The Opti-Salts 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 Opti-Salts Suite Composition Table

Number	Buffer	Optimizer	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
1	1 M Sodium acetate pH 4.6		136001
2			136002
3	1 M Tris-HCl pH 8.5		136003
4	0.1 M Sodium acetate pH 4.6	3.2 M Sodium chloride	136004
5		3.2 M Sodium chloride	136005
6	0.1 M Tris-HCl pH 8.5	3.2 M Sodium chloride	136006
7	0.1 M Sodium acetate pH 4.6	2.4 M Sodium malonate	136007
8		2.4 M Sodium malonate	136008
9	0.1 M Tris-HCl pH 8.5	2.4 M Sodium malonate	136009
10	0.1 M Sodium acetate pH 4.6	1.5 M Magnesium chloride	136010
11		1.5 M Magnesium chloride	136011
12	0.1 M Tris-HCl pH 8.5	1.5 M Magnesium chloride	136012
13	0.1 M Sodium acetate pH 4.6		136013
14		ddH <sub>2</sub> O	136014
15	0.1 M Tris-HCl pH 8.5		136015
16	0.1 M Sodium acetate pH 4.6	1.6 M Sodium chloride	136016
17		1.6 M Sodium chloride	136017
18	0.1 M Tris-HCl pH 8.5	1.6 M Sodium chloride	136018
19	0.1 M Sodium acetate pH 4.6	1.2 M Sodium malonate	136019
20		1.2 M Sodium malonate	136020
21	0.1 M Tris-HCl pH 8.5	1.2 M Sodium malonate	136021
22	0.1 M Sodium acetate pH 4.6	0.75 Magnesium chloride	136022
23		0.75 Magnesium chloride	136023
24	0.1 M Tris-HCl pH 8.5	0.75 Magnesium chloride	136024
25	0.1 M Sodium acetate pH 4.6	1.2 M Sodium citrate	136025
26		1.2 M Sodium citrate	136026
27	0.1 M Tris-HCl pH 8.5	1.2 M Sodium citrate	136027
28	0.1 M Sodium acetate pH 4.6	2 M Magnesium acetate	136028
29		2 M Magnesium acetate	136029
30	0.1 M Tris-HCl pH 8.5	2 M Magnesium acetate	136030
31	0.1 M Sodium acetate pH 4.6	3.5 M Ammonium chloride	136031
32		3.5 M Ammonium chloride	136032
33	0.1 M Tris-HCl pH 8.5	3.5 M Ammonium chloride	136033
34	0.1 M Sodium acetate pH 4.6	3.5 M Sodium bromide	136034
35		3.5 M Sodium bromide	136035
36	0.1 M Tris-HCl pH 8.5	3.5 M Sodium bromide	136036
37	0.1 M Sodium acetate pH 4.6	0.6 M Sodium citrate	136037
38		0.6 M Sodium citrate	136038
39	0.1 M Tris-HCl pH 8.5	0.6 M Sodium citrate	136039
40	0.1 M Sodium acetate pH 4.6	1 M Magnesium acetate	136040
41		1 M Magnesium acetate	136041
42	0.1 M Tris-HCl pH 8.5	1 M Magnesium acetate	136042
43	0.1 M Sodium acetate pH 4.6	1.75 M Ammonium chloride	136043
44		1.75 M Ammonium chloride	136044
45	0.1 M Tris-HCl pH 8.5	1.75 M Ammonium chloride	136045
46	0.1 M Sodium acetate pH 4.6	1.75 M Sodium bromide	136046
47		1.75 M Sodium bromide	136047
48	0.1 M Tris-HCl pH 8.5	1.75 M Sodium bromide	136048

## The Opti-Salts Suite Composition Table

Number	Buffer	Optimizer	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
49	0.1 M Sodium acetate pH 4.6	3.5 M Sodium formate	136049
50		3.5 M Sodium formate	136050
51	0.1 M Tris-HCl pH 8.5	3.5 M Sodium formate	136051
52	0.1 M Sodium acetate pH 4.6	2.2 M Calcium chloride	136052
53		2.2 M Calcium chloride	136053
54	0.1 M Tris-HCl pH 8.5	2.2 M Calcium chloride	136054
55	0.1 M Sodium acetate pH 4.6	4.5 M Ammonium acetate	136055
56		4.5 M Ammonium acetate	136056
57	0.1 M Tris-HCl pH 8.5	4.5 M Ammonium acetate	136057
58	0.1 M Sodium acetate pH 4.6	0.6 M Sodium fluoride	136058
59		0.6 M Sodium fluoride	136059
60	0.1 M Tris-HCl pH 8.5	0.6 M Sodium fluoride	136060
61	0.1 M Sodium acetate pH 4.6	1.75 M Sodium formate	136061
62		1.75 M Sodium formate	136062
63	0.1 M Tris-HCl pH 8.5	1.75 M Sodium formate	136063
64	0.1 M Sodium acetate pH 4.6	1.1 M Calcium chloride	136064
65		1.1 M Calcium chloride	136065
66	0.1 M Tris-HCl pH 8.5	1.1 M Calcium chloride	136066
67	0.1 M Sodium acetate pH 4.6	2.25 M Ammonium acetate	136067
68		2.25 M Ammonium acetate	136068
69	0.1 M Tris-HCl pH 8.5	2.25 M Ammonium acetate	136069
70	0.1 M Sodium acetate pH 4.6	0.3 M Sodium fluoride	136070
71		0.3 M Sodium fluoride	136071
72	0.1 M Tris-HCl pH 8.5	0.3 M Sodium fluoride	136072
73	0.1 M Sodium acetate pH 4.6	2.2 M Potassium chloride	136073
74		2.2 M Potassium chloride	136074
75	0.1 M Tris-HCl pH 8.5	2.2 M Potassium chloride	136075
76	0.1 M Sodium acetate pH 4.6	2.4 M Sodium thiocyanate	136076
77		2.4 M Sodium thiocyanate	136077
78	0.1 M Tris-HCl pH 8.5	2.4 M Sodium thiocyanate	136078
79	0.1 M Sodium acetate pH 4.6	3.5 M Sodium nitrate	136079
80		3.5 M Sodium nitrate	136080
81	0.1 M Tris-HCl pH 8.5	3.5 M Sodium nitrate	136081
82	0.1 M Sodium acetate pH 4.6	4 M Lithium chloride	136082
83		4 M Lithium chloride	136083
84	0.1 M Tris-HCl pH 8.5	4 M Lithium chloride	136084
85	0.1 M Sodium acetate pH 4.6	1.1 M Potassium chloride	136085
86		1.1 M Potassium chloride	136086
87	0.1 M Tris-HCl pH 8.5	1.1 M Potassium chloride	136087
88	0.1 M Sodium acetate pH 4.6	1.2 M Sodium thiocyanate	136088
89		1.2 M Sodium thiocyanate	136089
90	0.1 M Tris-HCl pH 8.5	1.2 M Sodium thiocyanate	136090
91	0.1 M Sodium acetate pH 4.6	1.75 M Sodium nitrate	136091
92		1.75 M Sodium nitrate	136092
93	0.1 M Tris-HCl pH 8.5	1.75 M Sodium nitrate	136093
94	0.1 M Sodium acetate pH 4.6	2 M Lithium chloride	136094
95		2 M Lithium chloride	136095
96	0.1 M Tris-HCl pH 8.5	2 M Lithium chloride	136096

## 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 <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 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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