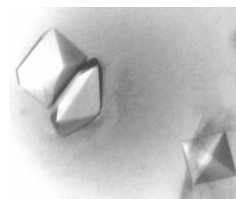


The pHClear Suite

For screening of protein crystallization conditions



The pHClear Suite provides:

- A ready-to-use kit format to which only protein needs to be added, for easy and fast screening
- Ideal conditions for an initial screening to define crystallization conditions of a new protein
- Easy analysis of the effect of precipitant concentration and pH
- 96 precisely defined chemical solutions containing the most popular precipitants
- Grids around various concentrations of popular precipitants covering a wide range of pH (4.0 to 9.0)
 - Salts: Sodium chloride, Ammonium sulphate
 - Polymers: PEG 6000
 - Organics: MPD

The pHClear 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 pHClear Suite Composition Table

Number	Buffer	Salt	pH	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
1	0.1 M Citric acid	1.0 M Sodium chloride	4.0	134801
2	0.1 M Citric acid	1.0 M Sodium chloride	5.0	134802
3	0.1 M MES	1.0 M Sodium chloride	6.0	134803
4	0.1 M HEPES	1.0 M Sodium chloride	7.0	134804
5	0.1 M Tris	1.0 M Sodium chloride	8.0	134805
6	0.1 M Bicine	1.0 M Sodium chloride	9.0	134806
7	0.1 M Citric acid	2.0 M Sodium chloride	4.0	134807
8	0.1 M Citric acid	2.0 M Sodium chloride	5.0	134808
9	0.1 M MES	2.0 M Sodium chloride	6.0	134809
10	0.1 M HEPES	2.0 M Sodium chloride	7.0	134810
11	0.1 M Tris	2.0 M Sodium chloride	8.0	134811
12	0.1 M Bicine	2.0 M Sodium chloride	9.0	134812
13	0.1 M Citric acid	3.0 M Sodium chloride	4.0	134813
14	0.1 M Citric acid	3.0 M Sodium chloride	5.0	134814
15	0.1 M MES	3.0 M Sodium chloride	6.0	134815
16	0.1 M HEPES	3.0 M Sodium chloride	7.0	134816
17	0.1 M Tris	3.0 M Sodium chloride	8.0	134817
18	0.1 M Bicine	3.0 M Sodium chloride	9.0	134818
19	0.1 M Citric acid	4.0 M Sodium chloride	4.0	134819
20	0.1 M Citric acid	4.0 M Sodium chloride	5.0	134820
21	0.1 M MES	4.0 M Sodium chloride	6.0	134821
22	0.1 M HEPES	4.0 M Sodium chloride	7.0	134822
23	0.1 M Tris	4.0 M Sodium chloride	8.0	134823
24	0.1 M Bicine	4.0 M Sodium chloride	9.0	134824
25	0.1 M Citric acid	5% (w/v) PEG 6000	4.0	134825
26	0.1 M Citric acid	5% (w/v) PEG 6000	5.0	134826
27	0.1 M MES	5% (w/v) PEG 6000	6.0	134827
28	0.1 M HEPES	5% (w/v) PEG 6000	7.0	134828
29	0.1 M Tris	5% (w/v) PEG 6000	8.0	134829
30	0.1 M Bicine	5% (w/v) PEG 6000	9.0	134830
31	0.1 M Citric acid	10% (w/v) PEG 6000	4.0	134831
32	0.1 M Citric acid	10% (w/v) PEG 6000	5.0	134832
33	0.1 M MES	10% (w/v) PEG 6000	6.0	134833
34	0.1 M HEPES	10% (w/v) PEG 6000	7.0	134834
35	0.1 M Tris	10% (w/v) PEG 6000	8.0	134835
36	0.1 M Bicine	10% (w/v) PEG 6000	9.0	134836
37	0.1 M Citric acid	20% (w/v) PEG 6000	4.0	134837
38	0.1 M Citric acid	20% (w/v) PEG 6000	5.0	134838
39	0.1 M MES	20% (w/v) PEG 6000	6.0	134839
40	0.1 M HEPES	20% (w/v) PEG 6000	7.0	134840
41	0.1 M Tris	20% (w/v) PEG 6000	8.0	134841
42	0.1 M Bicine	20% (w/v) PEG 6000	9.0	134842
43	0.1 M Citric acid	30% (w/v) PEG 6000	4.0	134843
44	0.1 M Citric acid	30% (w/v) PEG 6000	5.0	134844
45	0.1 M MES	30% (w/v) PEG 6000	6.0	134845
46	0.1 M HEPES	30% (w/v) PEG 6000	7.0	134846
47	0.1 M Tris	30% (w/v) PEG 6000	8.0	134847
48	0.1 M Bicine	30% (w/v) PEG 6000	9.0	134848

The pHClear Suite Composition Table

Number	Buffer	Salt	pH	Cat. no. (Refill-Hit Solution, 4 x 12.5 ml tubes)
49	0.1 M Citric acid	0.8 M Ammonium sulfate	4.0	134849
50	0.1 M Citric acid	0.8 M Ammonium sulfate	5.0	134850
51	0.1 M MES	0.8 M Ammonium sulfate	6.0	134851
52	0.1 M HEPES	0.8 M Ammonium sulfate	7.0	134852
53	0.1 M Tris	0.8 M Ammonium sulfate	8.0	134853
54	0.1 M Bicine	0.8 M Ammonium sulfate	9.0	134854
55	0.1 M Citric acid	1.6 M Ammonium sulfate	4.0	134855
56	0.1 M Citric acid	1.6 M Ammonium sulfate	5.0	134856
57	0.1 M MES	1.6 M Ammonium sulfate	6.0	134857
58	0.1 M HEPES	1.6 M Ammonium sulfate	7.0	134858
59	0.1 M Tris	1.6 M Ammonium sulfate	8.0	134859
60	0.1 M Bicine	1.6 M Ammonium sulfate	9.0	134860
61	0.1 M Citric acid	2.4 M Ammonium sulfate	4.0	134861
62	0.1 M Citric acid	2.4 M Ammonium sulfate	5.0	134862
63	0.1 M MES	2.4 M Ammonium sulfate	6.0	134863
64	0.1 M HEPES	2.4 M Ammonium sulfate	7.0	134864
65	0.1 M Tris	2.4 M Ammonium sulfate	8.0	134865
66	0.1 M Bicine	2.4 M Ammonium sulfate	9.0	134866
67	0.1 M Citric acid	3.2 M Ammonium sulfate	4.0	134867
68	0.1 M Citric acid	3.2 M Ammonium sulfate	5.0	134868
69	0.1 M MES	3.2 M Ammonium sulfate	6.0	134869
70	0.1 M HEPES	3.2 M Ammonium sulfate	7.0	134870
71	0.1 M Tris	3.2 M Ammonium sulfate	8.0	134871
72	0.1 M Bicine	3.2 M Ammonium sulfate	9.0	134872
73	0.1 M Citric acid	10% (v/v) MPD	4.0	134873
74	0.1 M Sodium acetate	10% (v/v) MPD	5.0	134874
75	0.1 M MES	10% (v/v) MPD	6.0	134875
76	0.1 M HEPES	10% (v/v) MPD	7.0	134876
77	0.1 M Tris	10% (v/v) MPD	8.0	134877
78	0.1 M Bicine	10% (v/v) MPD	9.0	134878
79	0.1 M Citric acid	20% (v/v) MPD	4.0	134879
80	0.1 M Sodium acetate	20% (v/v) MPD	5.0	134880
81	0.1 M MES	20% (v/v) MPD	6.0	134881
82	0.1 M HEPES	20% (v/v) MPD	7.0	134882
83	0.1 M Tris	20% (v/v) MPD	8.0	134883
84	0.1 M Bicine	20% (v/v) MPD	9.0	134884
85	0.1 M Citric acid	40% (v/v) MPD	4.0	134885
86	0.1 M Sodium acetate	40% (v/v) MPD	5.0	134886
87	0.1 M MES	40% (v/v) MPD	6.0	134887
88	0.1 M HEPES	40% (v/v) MPD	7.0	134888
89	0.1 M Tris	40% (v/v) MPD	8.0	134889
90	0.1 M Bicine	40% (v/v) MPD	9.0	134890
91	0.1 M Citric acid	65% (v/v) MPD	4.0	134891
92	0.1 M Sodium acetate	65% (v/v) MPD	5.0	134892
93	0.1 M MES	65% (v/v) MPD	6.0	134893
94	0.1 M HEPES	65% (v/v) MPD	7.0	134894
95	0.1 M Tris	65% (v/v) MPD	8.0	134895
96	0.1 M Bicine	65% (v/v) MPD	9.0	134896

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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