

STOCK SOLUTION KITS

FOR RECREATING SCREENING SUITE CONDITIONS



The NeXtal Stock Solution kits provide:

- Stock solutions ideal for developing grids around original hit conditions
- Three different kits available: buffers, cryoprotectants, and salts
- Compatibility with all NeXtal Screening Suites
- Maximized reproducibility for your initial crystallization hits

The range of solutions with the individual NeXtal Stock Solution Kits can be used to develop grids around the established conditions. The NeXtal Stock Kit Buffer provides 48 conditions with a range of pHs from pH 2.2 to 11.6, NeXtal Stock Kit Salt provides 48 conditions containing different salts, and the NeXtal Stock Kit Cryo provides 24 of the most popular cryoprotectants. Reproducibility of the conditions is essential for repeating crystallization, therefore, the same high-quality chemicals are used as in the NeXtal Screening Suites. Each kit contains 10 ml of each condition.

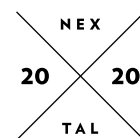
 Fast, simple, consistent crystallography. **NO SURPRISES**



NeXtal

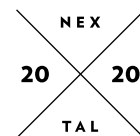
NEXTAL STOCK KIT SALT COMPOSITION TABLE (48 X 10 ML)

Number	Salt
1	1 M Ammonium Acetate
2	5 M Ammonium Chloride
3	2.5 M Ammonium dihydrogen phosphate
4	10 M Ammonium Fluoride
5	10 M Ammonium Formate
6	1 M Ammonium Iodide
7	10 M Ammonium Nitrate
8	3.5 M Ammonium Sulfate
9	1 M Calcium Acetate Hydrate
10	2 M Calcium Chloride Dihydrate
11	2.5 M di-Ammonium Hydrogen Citrate
12	3.5 M di-Ammonium Hydrogen Phosphate
13	2 M di-Ammonium Tartrate
14	3 M di-Potassium Hydrogen Phosphate
15	0.5 M di-Sodium Hydrogen Phosphate Dihydrate
16	1.5 M di-Sodium Tartrate Dihydrate
17	5 M Lithium Acetate Dihydrate
18	10 M Lithium Chloride Anhydrous
19	8 M Lithium Nitrate
20	1 M Lithium Sulfate Monohydrate
21	1 M Magnesium Acetate Tetrahydrate
22	2 M Magnesium Chloride Hexahydrate
23	1 M Magnesium Formate Dihydrate
24	3 M Magnesium Nitrate Hexahydrate
25	2.5 M Magnesium Sulfate Heptahydrate
26	5 M Potassium Acetate
27	4 M Potassium Chloride
28	1.5 M Potassium Dihydrogen Phosphate
29	6 M Potassium Fluoride
30	14 M Potassium Formate
31	1 M Potassium Iodide
32	3 M Potassium Nitrate
33	1.5 M Potassium Sodium Tartrate Tetrahydrate
34	0.5 M Potassium Sulfate
35	8 M Potassium Thiocyanate
36	1.6 M Sodium Acetate Trihydrate
37	5 M Sodium Chloride
38	5 M Sodium Dihydrogen Phosphate Monohydrate
39	0.8 M Sodium Fluoride
40	7 M Sodium Formate
41	1 M Sodium Iodide
42	7 M Sodium Nitrate
43	1 M Sodium Sulfate Decahydrate
44	8 M Sodium Thiocyanate
45	1.5 M tri-Lithium Citrate Tetrahydrate
46	2.5 M tri-Potassium Citrate Monohydrate
47	1.6 M tri-Sodium Citrate Dihydrate
48	1 M Zinc Acetate Dihydrate



NEXTAL STOCK KIT BUFFER COMPOSITION TABLE (48 X 10 ML)

Number	Buffer	Final pH
1	1.0 M Citric Acid	2.2
2	1.0 M Citric Acid	2.4
3	1.0 M Citric Acid	2.6
4	1.0 M Citric Acid	2.8
5	1.0 M Citric Acid	3.0
6	1.0 M Citric Acid	3.2
7	1.0 M Citric Acid	3.4
8	1.0 M Citric Acid	3.6
9	1.0 M Citric Acid	3.8
10	1.0 M Sodium Acetate	4.0
11	1.0 M Sodium Acetate	4.2
12	1.0 M Sodium Acetate	4.4
13	1.0 M Sodium Acetate	4.6
14	1.0 M Sodium Acetate	4.8
15	1.0 M tri-Sodium Citrate	5.0
16	1.0 M tri-Sodium Citrate	5.2
17	1.0 M tri-Sodium Citrate	5.4
18	1.0 M tri-Sodium Citrate	5.6
19	1.0 M tri-Sodium Citrate	5.8
20	1.0 M Sodium Cacodylate	6.0
21	1.0 M Sodium Cacodylate	6.2
22	1.0 M Sodium Cacodylate	6.4
23	1.0 M Sodium Cacodylate	6.6
24	1.0 M Sodium Cacodylate	6.8
25	1.0 M Sodium HEPES	7.0
26	1.0 M Sodium HEPES	7.2
27	1.0 M Sodium HEPES	7.4
28	1.0 M Sodium HEPES	7.6
29	1.0 M Sodium HEPES	7.8
30	1.0 M Tris Hydrochloride	8.0
31	1.0 M Tris Hydrochloride	8.2
32	1.0 M Tris Hydrochloride	8.4
33	1.0 M Tris Hydrochloride	8.6
34	1.0 M Tris Hydrochloride	8.8
35	0.5 M CAPSO	9.0
36	0.5 M CAPSO	9.2
37	0.5 M CAPSO	9.4
38	0.5 M CAPSO	9.6
39	0.5 M CAPSO	9.8
40	0.5 M CAPS	10.0
41	0.5 M CAPS	10.2
42	0.5 M CAPS	10.4
43	0.5 M CAPS	10.6
44	0.5 M CAPS	10.8
45	0.5 M CAPS	11.0
46	0.5 M CAPS	11.2
47	0.5 M CAPS	11.4
48	0.5 M CAPS	11.6



NEXTAL STOCK KIT CRYO COMPOSITION TABLE (24 X 10 ML)

Number	Cryoprotectant
1	6 M 1,6-Hexanediol
2	70% (w/v) 2 D-(+)-Glucose
3	70% (w/v) D-(+)-Sucrose
4	100% (v/v) Glycerol
5	100% (v/v) Isopropanol
6	40% (v/v) Jeffamine M-600 pH 7.0
7	5 M Lithium Acetate
8	10 M Lithium Chloride
9	8 M Lithium Nitrate
10	2 M Lithium Sulfate
11	3.4 M Magnesium Acetate
12	100% (v/v) MPD
13	100% (v/v) NVH Oil
14	100% (v/v) Paratone-N
15	100% (v/v) PEG 200
16	100% (v/v) PEG 400
17	50% (w/v) PEG 4000
18	50% (v/v) Pentaerythritol Ethoxylate (15/4 EO/OH)
19	50% (v/v) Pentaerythritol Propoxylate (5/4 PO/OH)
20	50% (w/v) Polyvinylpyrrolidone K15
21	100% (v/v) Propylene Glycol
22	7 M Sodium Formate
23	7 M Sodium Nitrate
24	70% (w/v) Xylitol



NeXtal Crystallization Screens Available

- The Classics Suite
- The Classics Lite Suite
- The Classics II Suite
- The Cryos Suite
- The PEGs Suite
- The AmSO₄ 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

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

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