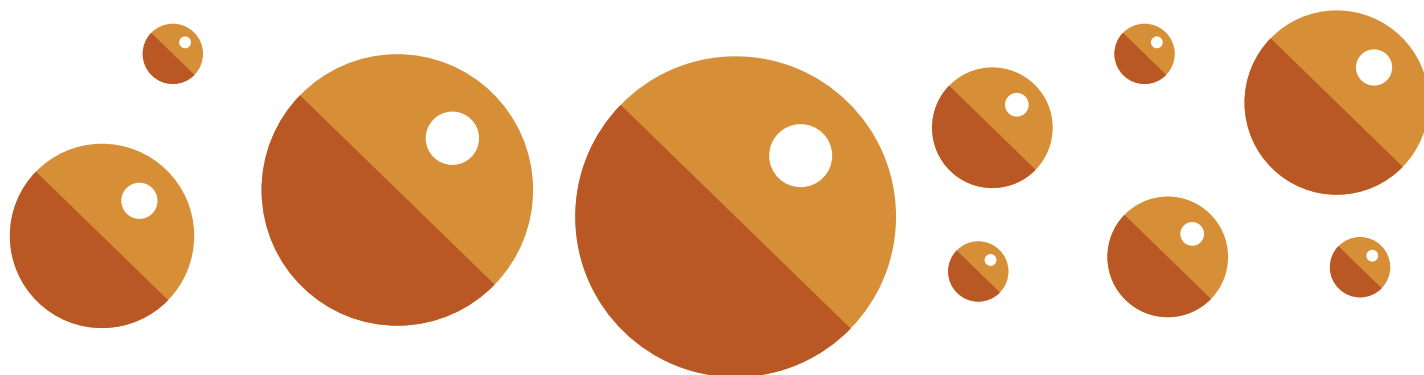
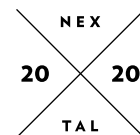




# *THE COMPAS SUITE*

**FOR SCREENING OF PROTEIN CRYSTALLIZATION CONDITIONS**



## **The ComPAS Suite provides:**

- A ready-to-use kit format to which only protein needs to be added, for easy and fast screening
- Complementary initial screening solutions selected from the most successful BMCD (1) crystallization conditions
- Polymers, alcohols, and salts as precipitant types
- Maximized reproducibility through access to production reports

The ComPAS Suite is available in 1 ml DWBlock and 10 ml tube formats.

The formulations of the 96 conditions of this screen, together with an order number for the 100 ml refill solution for each condition, are found on pages 2 and 3. Optimization reagent stock solutions for each NeXtal crystallization screen are available on our website. Please contact us with any questions about condition formulations or optimization.

1. Gilliland, G.L., Tung, M., Blakeslee, D.M. and Ladner, J. 1994. The Biological Macromolecule Crystallization Database, Version 3.0: New Features, Data, and the NASA Archive for Protein Crystal Growth Data. Acta Crystallogr. D50 408-413.

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



**NeXtal**

## THE COMPAS SUITE COMPOSITION TABLE

| #  | Well | Salt                     | Buffer                      | Precipitant                              | 100 ml Refill SKU |
|----|------|--------------------------|-----------------------------|------------------------------------------|-------------------|
| 1  | A1   | 0.1 M Potassium chloride |                             | 12% (w/v) PEG 8000; 5% (w/v) Glycerol    | 135601-1          |
| 2  | A2   | 0.5 M Potassium chloride |                             | 12% (w/v) PEG 8000; 10% (w/v) Glycerol   | 135601-2          |
| 3  | A3   | 0.2 M Ammonium sulfate   |                             | 15% (w/v) PEG 8000                       | 135601-3          |
| 4  | A4   | 0.5 M Lithium sulfate    |                             | 15% (w/v) PEG 8000                       | 135601-4          |
| 5  | A5   | 0.2 M Sodium acetate     | 0.1 M MES pH 6.5            | 15% (w/v) PEG 8000                       | 135601-5          |
| 6  | A6   | 0.05 M Ammonium sulfate  | 0.1 M Sodium citrate        | 15% (w/v) PEG 8000                       | 135601-6          |
| 7  | A7   | 0.2 M Calcium acetate    | 0.1 M HEPES pH 7.5          | 18% (w/v) PEG 8000                       | 135601-7          |
| 8  | A8   | 0.1 M Sodium acetate     | 0.1 M HEPES pH 7.5          | 18% (w/v) PEG 8000; 2% (w/v) Isopropanol | 135601-8          |
| 9  | A9   | 0.2 M Lithium sulfate    | 0.1 M Tris pH 8.5           | 18% (w/v) PEG 8000                       | 135601-9          |
| 10 | A10  |                          | 0.1 M HEPES pH 7.5          | 20% (w/v) PEG 8000                       | 135601-10         |
| 11 | A11  | 0.2 M Magnesium acetate  | 0.1 M MES pH 6.5            | 20% (w/v) PEG 8000                       | 135601-11         |
| 12 | A12  |                          | 0.1 M CHES pH 9.5           | 20% (w/v) PEG 8000                       | 135601-12         |
| 13 | B1   | 0.2 M Ammonium sulfate   | 0.1 M MES pH 6.5            | 22% (w/v) PEG 8000                       | 135601-13         |
| 14 | B2   | 0.2 M Lithium chloride   |                             | 25% (w/v) PEG 8000                       | 135601-14         |
| 15 | B3   | 0.2 M Ammonium sulfate   |                             | 30% (w/v) PEG 8000                       | 135601-15         |
| 16 | B4   |                          | 0.1 M Sodium acetate pH 4.6 | 8% (w/v) PEG 10000                       | 135601-16         |
| 17 | B5   |                          | 0.1 M Imidazole pH 8.0      | 14% (w/v) PEG 10000                      | 135601-17         |
| 18 | B6   |                          | 0.1 M Tris pH 8.5           | 16% (w/v) PEG 10000                      | 135601-18         |
| 19 | B7   | 0.1 M Sodium chloride    | 0.1 M Tris pH 8.5           | 18% (w/v) PEG 10000; 20% (w/v) Glycerol  | 135601-19         |
| 20 | B8   |                          | 0.1 M HEPES pH 7.5          | 20% (w/v) PEG 10000                      | 135601-20         |
| 21 | B9   |                          | 0.1 M Tris pH 8.5           | 30% (w/v) PEG 10000                      | 135601-21         |
| 22 | B10  |                          | 0.1 M MES pH 6.5            | 10% (w/v) PEG 20000                      | 135601-22         |
| 23 | B11  | 0.1 M Magnesium chloride | 0.1 M Tris pH 8.5           | 17% (w/v) PEG 20000                      | 135601-23         |
| 24 | B12  |                          |                             | 20% (w/v) PEG 20000                      | 135601-24         |
| 25 | C1   | 0.01 M Sodium acetate    |                             | 50% (w/v) MPD; 15% (w/v) Ethanol         | 135601-25         |
| 26 | C2   | 0.05M Sodium chloride    | 0.05 M Sodium acetate       | 50% (w/v) MPD; 20% (w/v) Isopropanol     | 135601-26         |
| 27 | C3   | 0.1 M Ammonium phosphate | 0.1 M Tris pH 8.5           | 50% (w/v) MPD                            | 135601-27         |
| 28 | C4   |                          |                             | 55% (w/v) MPD                            | 135601-28         |
| 29 | C5   | 0.01 M Calcium chloride  | 0.1 M Sodium acetate pH 4.6 | 60% (w/v) MPD                            | 135601-29         |
| 30 | C6   | 0.02 M Sodium acetate    |                             | 60% (w/v) MPD                            | 135601-30         |
| 31 | C7   |                          | 0.1 M MES pH 6.5            | 70% (w/v) MPD                            | 135601-31         |
| 32 | C8   |                          | 0.1 M Tris pH 8.5           | 70% (w/v) MPD                            | 135601-32         |
| 33 | C9   | 0.01 M Calcium chloride  | 0.1 M Tris pH 8.5           | 20% (w/v) Methanol                       | 135601-33         |
| 34 | C10  |                          | 0.1 M Tris pH 8.5           | 2% (w/v) Ethanol                         | 135601-34         |
| 35 | C11  |                          | 0.1 M HEPES pH 7.5          | 5% (w/v) Ethanol; 5% (w/v) MPD           | 135601-35         |
| 36 | C12  | 0.2 M Sodium chloride    | 0.1 M Tris pH 8.5           | 5% (w/v) Ethanol; 5% (w/v) MPD           | 135601-36         |
| 37 | D1   |                          | 0.1 M Tris pH 8.5           | 10% (w/v) Ethanol                        | 135601-37         |
| 38 | D2   |                          | 0.1 M Sodium acetate pH 4.6 | 12% (w/v) Ethanol; 4% (w/v) PEG 400      | 135601-38         |
| 39 | D3   |                          | 0.1 M Tris pH 8.5           | 14% (w/v) Ethanol; 5% (w/v) Glycerol     | 135601-39         |
| 40 | D4   |                          | 0.1 M Tris pH 8.5           | 18% (w/v) Ethanol                        | 135601-40         |
| 41 | D5   |                          |                             | 20% (w/v) Ethanol                        | 135601-41         |
| 42 | D6   |                          |                             | 20% (w/v) Ethanol; 10% (w/v) Glycerol    | 135601-42         |
| 43 | D7   | 0.1 M Sodium acetate     |                             | 30% (w/v) Ethanol; 10% (w/v) PEG 6000    | 135601-43         |
| 44 | D8   |                          |                             | 45% (w/v) Ethanol                        | 135601-44         |
| 45 | D9   | 0.01 M Sodium acetate    |                             | 50% (w/v) Ethanol                        | 135601-45         |
| 46 | D10  | 0.05 M Sodium acetate    |                             | 60% (w/v) Ethanol; 1.5% (w/v) PEG 6000   | 135601-46         |
| 47 | D11  | 0.1 M Sodium chloride    |                             | 60% (w/v) Ethanol                        | 135601-47         |
| 48 | D12  | 0.01 M Magnesium sulfate | 0.1 M Tris pH 8.5           | 2% (w/v) Isopropanol                     | 135601-48         |



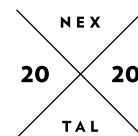
## THE COMPAS SUITE COMPOSITION TABLE

| #  | Well | Salt                      | Buffer                      | Precipitant                                             | 100 ml Refill SKU |
|----|------|---------------------------|-----------------------------|---------------------------------------------------------|-------------------|
| 49 | E1   |                           | 0.1 M HEPES pH 7.5          | 5% (w/v) Isopropanol                                    | 135601-49         |
| 50 | E2   | 0.2 M Calcium chloride    | 0.1 M Sodium acetate pH 4.6 | 10% (w/v) Isopropanol                                   | 135601-50         |
| 51 | E3   | 0.2 M Sodium citrate      | 0.1 M HEPES pH 7.5          | 10% (w/v) Isopropanol                                   | 135601-51         |
| 52 | E4   | 0.01 M Magnesium chloride | 0.1 M Tris pH 8.5           | 10% (w/v) Isopropanol                                   | 135601-52         |
| 53 | E5   | 0.05 M Sodium chloride    | 0.1 M Tris pH 8.5           | 12% (w/v) Isopropanol                                   | 135601-53         |
| 54 | E6   | 0.2 M Sodium citrate      | 0.1 M MES pH 6.5            | 15% (w/v) Isopropanol                                   | 135601-54         |
| 55 | E7   | 0.2 M Sodium citrate      | 0.1 M HEPES pH 7.5          | 15% (w/v) Isopropanol                                   | 135601-55         |
| 56 | E8   | 0.2 M Magnesium chloride  | 0.1 M HEPES pH 7.5          | 15% (w/v) Isopropanol                                   | 135601-56         |
| 57 | E9   | 0.2 M Ammonium acetate    | 0.1 M Tris pH 8.5           | 15% (w/v) Isopropanol                                   | 135601-57         |
| 58 | E10  | 0.2 M Calcium chloride    | 0.1 M Sodium acetate pH 4.6 | 20% (w/v) Isopropanol                                   | 135601-58         |
| 59 | E11  | 0.2 M Sodium citrate      | 0.1 M HEPES pH 7.5          | 20% (w/v) Isopropanol                                   | 135601-59         |
| 60 | E12  | 0.1 M Magnesium chloride  | 0.1 M HEPES pH 7.5          | 25% (w/v) Isopropanol                                   | 135601-60         |
| 61 | F1   | 0.2 M Sodium citrate      | 0.1 M MES pH 6.5            | 30% (w/v) Isopropanol                                   | 135601-61         |
| 62 | F2   | 0.2 M Magnesium chloride  | 0.1 M HEPES pH 7.5          | 30% (w/v) Isopropanol                                   | 135601-62         |
| 63 | F3   | 0.2 M Ammonium acetate    | 0.1 M Tris pH 8.5           | 30% (w/v) Isopropanol                                   | 135601-63         |
| 64 | F4   | 0.1 M Calcium chloride    | 0.1 M Tris pH 8.5           | 25% (w/v) tert-Butanol                                  | 135601-64         |
| 65 | F5   |                           | 0.1 M Sodium citrate pH 5.6 | 35% (w/v) tert-Butanol                                  | 135601-65         |
| 66 | F6   |                           |                             | 0.2 M Ammonium dihydrogen phosphate                     | 135601-66         |
| 67 | F7   |                           |                             | 0.2 M Potassium/Sodium tartrate                         | 135601-67         |
| 68 | F8   |                           |                             | 0.2 M Magnesium acetate                                 | 135601-68         |
| 69 | F9   |                           |                             | 0.4 M Ammonium dihydrogen phosphate                     | 135601-69         |
| 70 | F10  |                           |                             | 0.4 M Potassium/Sodium tartrate                         | 135601-70         |
| 71 | F11  |                           | 0.1 M Tris pH 8.5           | 0.4 M Potassium/Sodium tartrate                         | 135601-71         |
| 72 | F12  | 0.2 M Sodium citrate      |                             | 0.5 M Ammonium dihydrogen phosphate                     | 135601-72         |
| 73 | G1   |                           | 0.1 M Imidazole pH 8.0      | 0.5 M Sodium acetate                                    | 135601-73         |
| 74 | G2   |                           | 0.1 M HEPES pH 7.5          | 0.7 M Sodium citrate                                    | 135601-74         |
| 75 | G3   |                           | 0.1 M Tris pH 8.5           | 0.7 M Lithium sulfate                                   | 135601-75         |
| 76 | G4   |                           | 0.1 M HEPES pH 7.5          | 0.8 M Potassium/Sodium tartrate                         | 135601-76         |
| 77 | G5   |                           | 0.1 M Sodium citrate pH 5.6 | 1.0 M Ammonium dihydrogen phosphate                     | 135601-77         |
| 78 | G6   |                           | 0.1 M Tris pH 8.5           | 1.0 M Ammonium dihydrogen phosphate                     | 135601-78         |
| 79 | G7   | 0.01 M Nickel chloride    | 0.1 M Tris pH 8.5           | 1.0 M Lithium sulfate                                   | 135601-79         |
| 80 | G8   |                           | 0.1 M Imidazole pH 8.0      | 1.0 M Sodium acetate                                    | 135601-80         |
| 81 | G9   |                           | 0.1 M Sodium acetate pH 4.6 | 1.0 M Sodium formate                                    | 135601-81         |
| 82 | G10  |                           | 0.1 M MES pH 6.5            | 1.4 M Sodium acetate                                    | 135601-82         |
| 83 | G11  |                           | 0.1 M HEPES pH 7.5          | 1.4 M Sodium citrate                                    | 135601-83         |
| 84 | G12  |                           | 0.1 M Tris pH 8.5           | 1.5 M Lithium sulfate                                   | 135601-84         |
| 85 | H1   |                           | 1 M Sodium citrate pH 6.5   |                                                         | 135601-85         |
| 86 | H2   |                           | 0.1 M MES pH 6.5            | 1.6 M Magnesium sulfate                                 | 135601-86         |
| 87 | H3   |                           | 0.1 M MES pH 6.5            | 1.6 M Potassium/Sodium tartrate                         | 135601-87         |
| 88 | H4   |                           | 0.1 M MES pH 6.5            | 2.0 M Ammonium formate                                  | 135601-88         |
| 89 | H5   |                           | 0.1 M Tris pH 8.5           | 2.0 M Ammonium dihydrogen phosphate                     | 135601-89         |
| 90 | H6   |                           |                             | 2.0 M Sodium formate                                    | 135601-90         |
| 91 | H7   |                           | 0.1 M Tris pH 8.5           | 2.0 M Magnesium chloride                                | 135601-91         |
| 92 | H8   | 0.2 M Sodium acetate      | 0.1 M MES pH 6.5            | 2.0 M Sodium chloride                                   | 135601-92         |
| 93 | H9   |                           | 0.1 M Sodium acetate pH 4.6 | 2.0 M Sodium formate                                    | 135601-93         |
| 94 | H10  |                           | 0.1 M Tris pH 8.5           | 1.0 M Ammonium dihydrogen phosphate; 30% (w/v) Glycerol | 135601-94         |
| 95 | H11  |                           | 0.1 M HEPES pH 7.5          | 4.0 M Sodium chloride                                   | 135601-95         |
| 96 | H12  |                           |                             | 3.0 M Sodium formate                                    | 135601-96         |



## Other NeXtal Crystallization Screens Available

- 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



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

### NeXtal Biotechnologies

6201 Trust Drive  
Holland, OH 43528

**P:** +1.419.794.7890  
**F:** +1.419.491.1002

**W:** [nextalbiotech.com](http://nextalbiotech.com)  
**E:** [customerservice@nextalbiotech.com](mailto:customerservice@nextalbiotech.com)



# NeXtal