

**A.k.a. Seaumic**

As with the analysis of any organic product, the results will vary with each subject under analysis. Results are dependent upon the methods used and the constituents present. Therefore, results can not be tabulated to be one hundred percent when combining all of the various components.

This product is made from activated humate derivatives Mined from Leonardite deposits. The ore is crushed and fortified before being pelletized and coated with Nature's NOG. Water dissolves the coating and releases the growth-stimulants and enzymes.

Appearance: brown granular prill (1-4 mm)  
 Odor: none  
 pH: 6.9-7.1 (buffer)  
 Organic matter: 20-30%  
 Moisture: ~10%  
 CEC: 25-29 meq/100g  
 Base saturation: 65-75%  
 Safety: Non-hazardous

**Product use:** **Nature's NOG Granular** is used to enrich the mineral and organic content of soil. Humate derivatives act as stimulants to plants and translocators of minerals. The natural sugars and carbon content in the product feed and activate the microbial population. Benefits occur over a period of 4- 6 months. The physical structure of the soil and its capacity to "hold and release" moisture is increased. The Cationic Exchange Capacity of the soil will increase, which allows more mineral nutrients to move within the soil and into the plant roots.

**Planting mixes:** Add the product to planting soils at a 10:1 ratio. Mix the product throughout the soil. Three pounds per cubic yard is a good rule-of-thumb.

**Garden beds:** Sprinkle 10-ounces evenly for every 100 sq. ft. Rough the product into the soil and water-it-in.

**Home Lawn:** Apply 15-pounds per 1000 sq. ft. in the spring and in the fall. Use a mechanical spreader of some kind to ensure an even distribution. Water the product into the lawn. Reduce the amount of chemical fertilizers used by 20%.

**Golf Course Greens:** Apply with the top dressing during aeration in the spring and fall. Use 12-lb/1000 sq. ft. on Bentgrass Greens and 15-lb/1000 sq. ft. on Bermuda greens.

**Fairways:** Apply 300 lbs./acre in spring and fall.

**Tees:** Apply 15-lbs/1000 sq. ft. in spring and fall.

The following list of contents is an average derived by analyzing several batches of product at multiple laboratories.

|                  |                      |
|------------------|----------------------|
| Humic acid       | 25%                  |
| Fulvic acid      | 6%                   |
| Ulmic acid       | 4%                   |
| Nitrogen         | 0.69%                |
| Phosphorus       | 5.66%                |
| Potassium        | 10.04%               |
| Sulfur           | 0.35%                |
| Aluminum         | 1.04%                |
| Barium           | 0.08%                |
| Boron            | 0.41%                |
| Calcium          | 3.44%                |
| Chromium         | 3.6x10 <sup>-4</sup> |
| Cobalt           | 0.10%                |
| Copper           | 10 ppm               |
| Iron             | 88 ppm               |
| Magnesium        | 52 ppm               |
| Manganese        | 133 ppm              |
| Nickel           | 7.2x10 <sup>-4</sup> |
| Silicon          | 12.63%               |
| Sodium           | 0.07%                |
| Selenium         | none detc.           |
| Strontium        | 3.5x10 <sup>-4</sup> |
| Titanium         | 0.036%               |
| Vanadium         | 0.018%               |
| Zinc             | 22 ppm               |
| Amino acids      | present              |
| Purine           | present              |
| Pyrimidine       | present              |
| Vitamins         | present              |
| Uronic acids     | present              |
| Pentose Sugars   | present              |
| Sugar alcohols   | present              |
| Methyl Sugars    | present              |
| Aliphatic acids  | present              |
| Cytokinnins      | present              |
| Auxins           | present              |
| Beatins          | present              |
| Zeatins          | present              |
| Mannitol         | present              |
| Alginate acid    | present              |
| Methylpentosans  | present              |
| Laminarin        | present              |
| Undefined Sugars | present              |