A PROPRIETARY FORMULATION OF NORWEGIAN SEAWEED AND LIQUID HUMATES

1. **ESTABLISH** is a formulation of ascophyllum Nodosum, a 100% cold-processed Norwegian seaweed and liquid humates.

2. **ESTABLISH** is designed for soil and foliar application to field, vegetable, row, fruit, tree, vine, turf and ornamental crops.

3. Norwegian seaweed is a natural storehouse of naturally occurring major and minor nutrients, carbohydrates, amino acids and plant growth promoting substances which enhance crop yields, quality and plant vigor.

4. Liquid Humate is not a plant food, but it does help plants utilize the nutrients which are available in the soil. It affects the release of plant nutrients especially nitrogen, in the soil through slow decomposition of organisms. Liquid Humate stimulates plant enzymes and acts as an organic catalyst. It is rich in organic and mineral substances essential for plant growth.

5. Ascophyllum Nodosum is an extract of kelp plants and contains the vitamins, amino acids and other cellular components extracted from the kelp, along with cytokinins. The typical analysis of Ascophyllum Nodosum is:

   **Organic matter:** Total Nitrogen (N) 0.3%-0.6%, Available Phosphoric Acid (P205) 0.3%-0.6%, Soluble Potash (K20) Sulfur (S) 0.3%-0.6%, Magnesium (Mg) 0.1%-0.2%, Calcium (Ca) 0.05%-0.1%, Iron (Fe) 44-75 ppm, Copper (Cu) 9-15 ppm, Zinc (Zn) 15-23 ppm, Manganese (Mn) 2-4 ppm, Boron (B) 30-44 ppm

   **Carbohydrates:** Algicin Acid, Mannitol, Laminarin

   **Naturally Occurring Growth Promoters:** Cytokinins, Auxins, Gibberellins

   **Amino Acids:** Glutamic Acid, Aspartic Acid, Arginine, Alanine, Glycine, Leucine, Lysine, Valine, Serine, Phenylalanine, Isoleucine, Histidine, Proline, Threonine, Tyrosine, Methionine, Cystine

6. When used with a good fertility program, **ESTABLISH** helps crops better utilize the available nutrients, even in poor soils and in times of drought.