



## USDA NOP Statement

A legal statement made to the USDA Licensed Certifier's for Organic Certified Growers.

## Commercial **TerraPro<sup>®</sup>** & **Agriculture Grade TerraPro**

### Introduction to product:

**Soil Secrets** guarantees that the product called **TerraPro<sup>®</sup>** meets the USDA NOP criteria for use on Organic Certified farms. TerraPro is concentrated granular product of **Supramolecular Humic Substances**, a molecular substance with supramolecular properties. Commercial TerraPro has tested as high as 94% Humic Acid content using a 1<sup>st</sup> level operational analysis by IAS Laboratories that's typical of commercial and university soil labs. While Agriculture Grade TerraPro has tested at 76% Humic Acids by the same lab using the same method of analysis. In soil Humic Acids are Supramolecular in that they associate with each other in a non chemical bonded clusters or chains involving hundreds if not tens of thousands of molecules, while Humic Acids found in geological ores such as Humate / Leonardite do not have Supramolecular properties! The Humic Acids of both TerraPro products are Supramolecular and are under Patent Pending review and support with the help of a Technology Transfer Program provided by Los Alamos National Laboratories under contract with Soil Secrets. TerraPro contains in addition to Humic substances, organic colloidal cations and anions chelated onto the Humic Acid substances, providing a product with an extremely high Cation Exchange, charged with plant available nutrients. There are hundreds of other benefits and characteristics of Supramolecular non-chemically bonded Humic Acids, but that's beyond the scope of this document.

**Objective of product:** To fortify the soil with Humic Acids that are Supramolecular.

**Method of manufacturing:** TerraPro is created by solubilizing Humate (more correctly called Oxidized Lignite) using a Patent Pending technique. The Humic Acids found in Humate are not water soluble and for this reason are chemically Non-Polar or Hydrophobic while Humic Acids that are Supramolecular are Polar and therefore Hydrophilic, capable of associating with water. In addition to making the Humic Acids of the Humate ore soluble, we also add a blend of both Endo and Ecto type Mycorrhizal spores to the commercial TerraPro product at the time of bagging. This is not done in

the Agriculture TerraPro, unless by request. **None of Mycorrhizal species used to produce the propagules are strains or GMO.**

**Ingredients:** TerraPro is a high analysis Humic Acid product derived from the geological shale called Humate, mined in Northwestern New Mexico's Fruitland formation. The product is not a fertilizer and is promoted only as a source of Humic Acids. Mycorrhizal spores of both Endo and Ecto types are included in the Commercial TerraPro, but not in the Ag Grade unless requested.

## **Oxidized Lignite (Humate) Organic Statement**

The mine used for the extraction of our Oxidized Lignite also known generically as Humate, has been in business for the past 34 years and is proud to provide consistently a high-quality material to the agricultural and environmental industries. A number of customers of this material have had it listed with OMRI. It's also approved by the New Mexico Organic Commodity Commission for use on Organic Certified farms. Our humates are being extracted from the Star Lake Mine, N1/2 of Section 10, Township 19N, Range 6W (New Mexico Principal Meridian), under New Mexico Permit MK007ME. The extraction process consists of stripping away the overburden, removing the humates by individual strata with a front-end loader and transporting to our processing plant at San Ysidro, NM.

At the processing plant, the humates are milled to a standard mill-run particle size of – 1/4". From the mill-run, the material may be bagged in 1-ton mini-tote bags or 50# paper bags for shipment or further processed and then bagged. Further processing consists of either pulverizing to a particle size of –50 mesh, or screening to customer specified particle size. In other words, our processing is strictly limited to changing the particle size of the humates or mixing with other products of Soil Secrets that are already approved by many USDA NOP certifiers. At no time in any of our processing or bagging are any foreign materials or chemicals introduced that are not proven and approved.

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