



# HumiSolve

## Not All Humic Acids Are Equal!

Fulvic

Humic

created from prehistoric plant material

### **How are humic acids formed and is there a quality difference?**

Humic sources are a naturally formed, organic material. They vary greatly in source, concentration and quality depending on how they were formed, whether they have been exposed, and how they are manufactured and handled.

### **What are the best sources of humic acid and why?**

The best raw sources are formed in the presence of fresh water where large leafed plants (cycads, euphorbia etc.) grew during the cretaceous period (plants high in latex). These materials are high in humic AND fulvic fractions. Most deposits worldwide were formed in salt water where grasses (sedge and reeds etc.) grew during the older carboniferous period. This older material is more closely related to coal and oxidized slack lignite and very low in the fulvic fraction. HumiSolve is made from humic substances that were formed in fresh water and high in both humic and fulvic acid.

### **How does weathering effect humic substances?**

Humic acids that have been exposed to weather due to uplift and cracking are low in the fulvic fraction. It's akin to leaving your compost in the rain for millions of years. It's best to look for substances that have been protected and unexposed. HumiSolve is made from premium humic substances that have been protected by 20+ feet of sandstone. The material comes from the basin, not from the rim of the formation where it has cracked open and weathered.

### **How does manufacturing effect the end product?**

As humic substances are not a single replicated molecule, and more like snowflakes all under a certain size, they are best handled gently. Extreme heat, often used to spray dry and then liquefy humic acids, reduces their natural efficacy and rearranges the material (denatures it). HumiSolve is made soluble via a unique dry to dry conversion that maintains the efficacy of the parent material.

### **How long are humic acids stable?**

Stability depends on manufacturing methods. In a dry form like HumiSolve the product is stable indefinitely. However, liquefied humic acids, made with chemicals, will degrade over a period of a year and become mostly ineffective. There are exceptions. A naturally fermented fulvic acid will remain stable indefinitely.

