



# Technical Data Sheet

## TBIO HumiKey

### Physical Properties

Form: Flake  
Color: Black brown  
Smell: Mild Odor  
Water Solubility at 20°C: Completely  
pH (10% solution at 20 °C): 9.0 – 11.0  
Loss of drying at 105 - 110 °C: 15 % max  
Bulk Density: 0.48 g/cm<sup>3</sup>  
Stability: stable under light

### Chemical Properties

Total Humic Extract (Dry basis): 80 %  
Fulvic Acid (Dry basis): 15-20 %  
Potassium (K<sub>2</sub>O dry basis): 8 %

### Heavy Metals (+/- 5 %)

As: 1.25 ppm max  
Cd: 0.07 ppm max  
Cr: 4.15 ppm max  
Ni: 4.40 ppm max  
Hg: 0.02 ppm max  
Pb: 4.25 ppm max

### General Information

TBIO Humikey is upgrade product based on TBIO HumiPower, it's concentrated humic acid extracted from young active leonardite mine. Presented as fine powder or flake, it has a feature of wonderful water solubility in a wide span of PH value including the slightly acid conditions;

The small molecular weight enhances its chelating capability and enables it more easily to be uptook by plant.

### Packaging and storage

Available in 1kg, 5kg, 10kg, 20Kg bag or 600Kg bulk bag

To be stored in a dry, clean, dark, well ventilated, moisture proof place. When stored under normal conditions in original unopened containers, no change of its physical, chemical and biological properties will occur in a minimum of 2 years.

\* **Caution:** Due to Product Natural Origin, we strongly recommend before to be used to run compatibility test with other ingredients that are going to be Mixed and / or Formulated.TBIO CROP SCIENCE, will not be liable under any circumstances, for their behavior in the above mentioned mixtures and / or formulations, or the consequences of using the Products.