

# TECHNICAL DATA SHEET

## Potassium Lignohumate

### Production Description

Potassium lignohumate is in black flakes or powder completely water soluble, can be used as soil conditioner or irrigation or foliage spray fertilizer.

### Main Specification

Name	Potassium Lignohumate
Product Code	GAC-KLSHA
Appearance	Black Powder or Flake
pH	9-10
Dry matters	95%min
Water-insoluble	1.5%max
Lignohumate	70%min
K <sub>2</sub> O	10%min
Moisture	15%min

### Uses

In agriculture can be used as base fertilizer and irrigation spray

- Largely increase the efficiency of fertilizers, especially Urea, ammonium sulfate, DAP, MAP.  
Potassium lignohumate could lock the nitrogen in soil and slow release, also will release the Phosphorus locked by Al<sup>+</sup>, accordingly increase the efficiency of fertilizers.
- Largely promote the buffering power and fertility of soil by improving the structure.  
In sandy soil, humic acid will help to increase the fertility of soil through its cation exchange capacity to retain water and beneficial micro-nutrient. In heavy and compact soil, humic acid will work with fungi to construct a crumb structure root to absorb water, oxygen, and nutrient, also improve root penetration.
- Neutralize both acidic and alkaline soil to release the beneficial metal ions, thus promote absorption by plants.  
In alkaline soil, beneficial ions and other trace elements can not be absorbed by plants, humic acid can buffer the pH and convert the nutrients and trace elements into absorbable form and promote their uptake by the roots.  
In acidic soil, humic acid will largely reduce the toxins such as the ally aluminum and heavy metals, which will be bonded firmly and immobilized, thus their toxicity is reduced and phosphate bonded by aluminum is released.  
In salinized soil, salts are split up by the high cation exchange capability, cation (eg. Ca, Mg) are bonded and chelated.
- Foster proper environment for soil microbial mass.  
Soil research shows that a place with higher content of humic acid will appear more beneficial microbial mass. Thus these microbes will help to increase the good effect of the soil.

- Largely optimized the absorption of beneficial ion by plants thus increase plants growth accordingly increase the yield and fruits quality.
- Humic acid stimulates the membrane of seeds to form a strong roots, which is decisive to increase the capacity of root to take up both micro and macro nutrients. Based on improved structure by humic acid N is largely stored and slow released, P is release from AL +in soil,also other microelement is in the form of easy-available by plants, meanwhile the beneficial fungi is active to produce different kind enzymes. with the above joint effort, the yield will be increased at lease 30%. Enhanced cell assimilation as well as photosynthesis increase the plant's sugar and vitamin content, thus the quality of their seeds will be largely increased.
- Enhance plants' ability to counter stressed conditions.  
Potassium lignohumate can mobilize K absorption to regulate the stomata open and close on the leaves also promote metabolism, thus increase the plants' ability under stressed conditions.

#### Package

1. 20kgs or 25kgs woven bags with liner inside, 2.According Requirement

<http://www.greenagrochem.com/products/Potassium-lignohumate/>