Technical Data Sheet

# Regulus Humatron Max

*Biostimulants*

# INTRODUCTION

## ABOUT REGULUS HUMATRON MAX

Regulus Humatron Max is an efficient soil conditioner and plant nutritional supplement. Its main ingredients include humic acid, fulvic acid and potassium.

It is refined from leonardite mines, ensuring its high purity and excellent use effects;

| PHYSICAL PROPERTIES | | | |
|---|---|---|---|
| Color | Black | Apearance | Powder |
| Odor | N/a | Moisture | ≤ 15% |
| Water Solubility (10% solution at 20 °C) | ≥99% | PH Value | 9~11 |
| | | | |
| **CHEMICAL PROPERTIES** | | | |
| Humic acid Content | 80% | Fulvic Acid | 7~8% |
| K2O | 10% | | |

## BENEFITS

Regulus Humatron Max can significantly improve the physical and chemical properties of soil, enhance soil water retention and aeration, promote soil microbial activity, and increase soil fertility. It has good chelating ability, which helps to fix and release nutrients in the soil, reduce nutrient loss, and promote plant root growth.

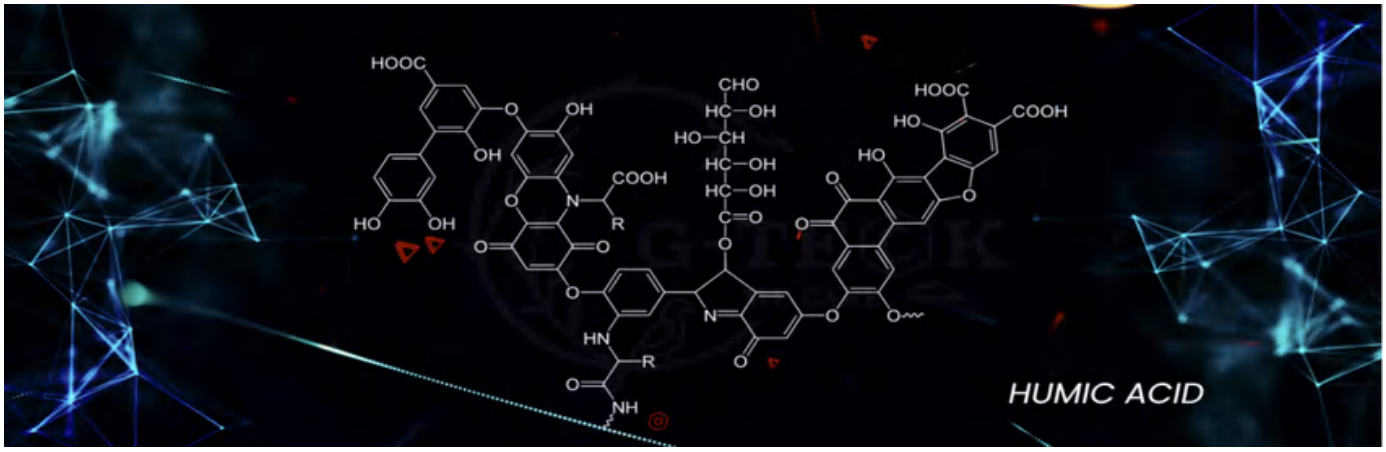

*Leonardite* → *KOH Extraction* → *Liquid - Solid Seperation* → *Liquid Drying* → *Regulus Humatron Max*

## Benefits

Regulus Humatron Max exhibits high reactivity because of the mineral fulvic acid inside of it, which remains stable and effective under such conditions, making it a more suitable choice for enhancing nutrient absorption and bioavailability in challenging environments. When exposed to hard water or complex formulations, humic acid may flocculate due to its larger molecular size. Therefore, its use in hard water areas is not recommended as this may lead to reduced efficacy and potential complications in nutrient availability.


## Powerful chelating ability

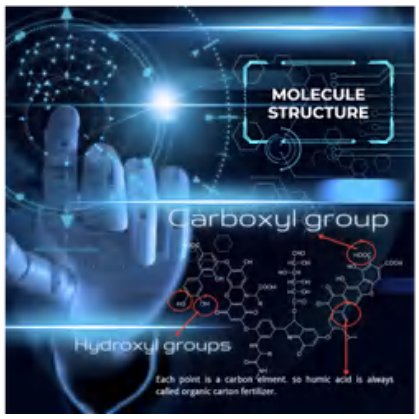
### Humic acid molecule Structure




Humic acid is a natural chelating agent containing functional groups such as carboxyl (-COOH) and hydroxyl (-OH)

They directly chelate elements and promote their uptake by crops. The hydroxyl (-OH) group acts synergistically, while the carboxyl (-COOH) group acts independently.

## BENEFITS

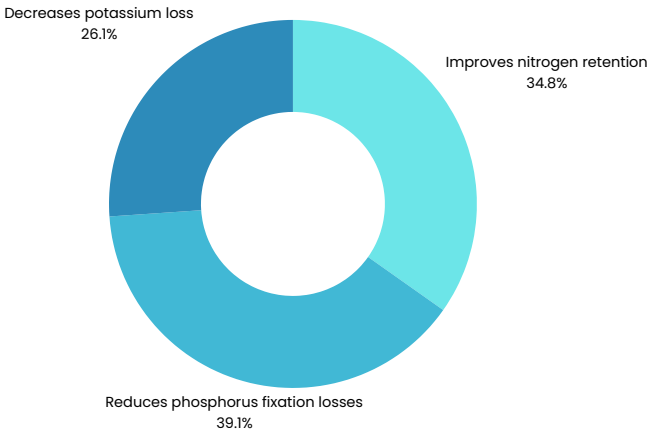


Humic acid and fulvic acid are able to form a stable complex with pesticides.thereby reducing the loss and degradation of pesticides in the soil and improving the utilization rate of pesticides.

## FIELD DATAS COLLECTION

Humic acid have strong nitrogen fixation, phosphorus, and potassium release capabilities.

The incorporation of Regulus Humatron Max enhances the natural soil cycling processes and improves nitrogen retention by approximately 30% to 40%. Additionally, it effectively reduces phosphorus fixation losses by up to 45% and decreases potassium loss rates by around 30%.

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## APPLICATION

Through the rational application of agricultural potassium humate, farmers can effectively improve soil quality, promote plant growth, enhance crop stress resistance, and bring significant economic benefits to agricultural production.

**GENERAL**
**APPLICATION**
**RECOMMENDATIONS**


Package Options: 1Kg, 5Kg, 10Kg, 20Kg bag or 600Kg bulk bag

Storage: Dry, cool, direct sun light proof, moisture proof warehouse.

Shelf life: 36 months.