

# K-HUMATE

## UNLOCKING THE POTENTIAL OF YOUR SOIL



With fertilizer raw materials becoming more scarce and expensive, it has become critically important to ensure that applied nutrients are effectively taken up and utilised by the plant.

K-humate is a highly concentrated source of humic acids sourced and produced in Australia. The product's high quality and proven performance is well recognised all over the world.

### WHAT ARE HUMIC ACIDS?

Humic acids are naturally derived from the breakdown of plant and microbial matter. It is the foundation of all fertile soils. Over the years, these humic acids accumulate in the soil. This provides the soil with greater nutrient holding ability, water holding capacity, readily available carbon food source for beneficial soil micro-organisms and better soil structures. This is nature's way of minimising nutrient losses in order to maintain long-term soil fertility and to ensure sustainable plant growth.

Humic acids present in the soil hold a wide range of nutrients around plant roots.

This ensures quick root uptake and optimal plant growth. Humic acids also improve the wetting ability and water holding ability of the soil. Through this and other benefits, K-humate provides a helping hand to growers to achieve greater crop production through a more effective use of applied fertilizers and maintaining long-term soil fertility.



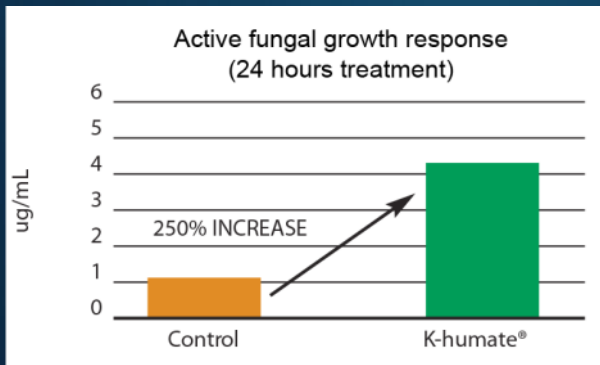
## OTHER BENEFITS

### Biological

- Stimulates growth of beneficial soil fungi and bacteria
- Stronger root systems become increasingly resistant to biotic and abiotic stress conditions
- Provides a readily available source of carbon for stimulation and growth of soil micro-organisms.

### Chemical

- Good chelating properties reducing nutrient loss due to leaching and run-off
- Release of soil-bound nutrients, particularly phosphates, calcium and micro-nutrients
- Lock-up aluminium in acidic soils which is harmful to plant growth
- Buffering capacity which assists soil stabilisation against strong pH changes from application of certain fertilizer sources.



*Humic acids promote beneficial soil microbial growth by providing active carbon for their energy and biomass requirements. Recent studies have shown that applications of water containing 150 ppm of K-humate stimulated significant growth of both the active fungal and bacterial population in a solution of compost tea.*

Contact your Omnia representative or regional office for more information.