

Rhizovator™

The Solution to Healthy Soil



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Rhizovator™ is a concentrated humic acid blended with seaweed (*Durvillaea potatorum*) and potassium. It is designed to feed the microbial community in the soil, to promote diversity and improve soil health.

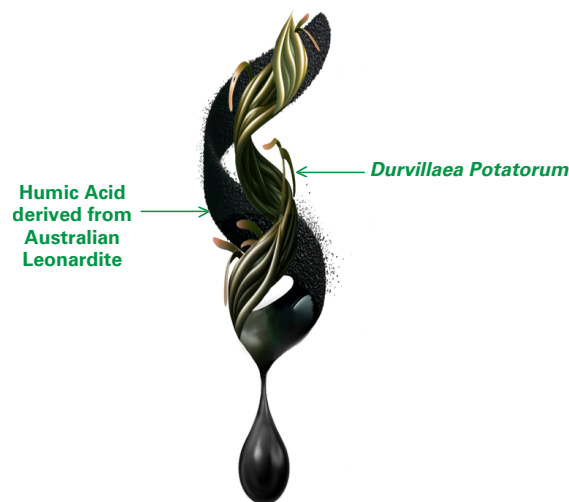
Benefits:

- Improves nutrient use efficiency
- Improves soil structure and water holding capacity
- Reduces nutrient lock-up in the soil
- Stimulates root growth
- Improves biological diversity
- Improves yield and quality

Guaranteed Analysis % W/W

Humic acid (CDFA method of analysis):	18.0 %
K ₂ O	5.0 %
Typical density:	9.3 lbs. / gal
Typical pH analysis:	10

Availability: Available in 5-gallon pails and 265-gallon totes.



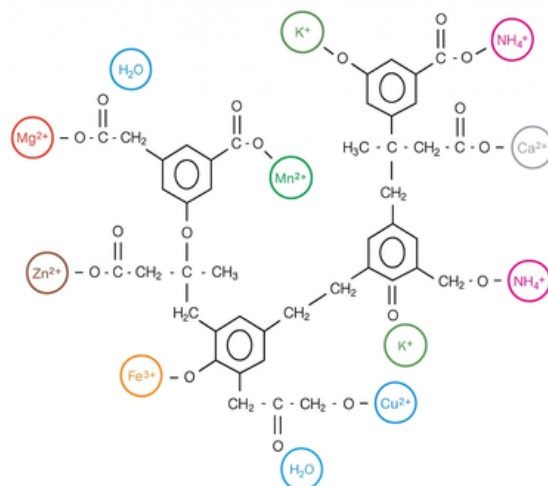
What are Humic Acids?

Humic acids are naturally derived from the breakdown of plant and microbial matter. Humic acids are the foundation of all fertile soils.

Over the years, these humic acids accumulate in the soil. This provides the soil with greater nutrient retention, water holding capacity, readily available carbon food source for beneficial soil microorganisms and better soil structure.

This is nature's way of minimizing nutrient losses to maintain long-term soil fertility and to ensure sustainable plant growth. Humic acids present in the soil hold a wide range of micronutrients and macronutrients around plant roots.

This provides the soil with greater nutrient retention, improved water-holding capacity, a readily available carbon source for beneficial soil microorganisms, and better soil structure.



Benefits of Humic Acids

Biological

- Provides a readily available source of carbon for the growth of soil microorganisms.
- Improves root development and increases resistance to biotic and abiotic stress conditions.

Chemical

- Improves the soil chelation properties by reducing nutrient loss due to leaching and run-off.
- Releases soil-bound nutrients, particularly phosphorus and calcium.
- Locks-up aluminium in acidic soils which is harmful to plant growth.
- Improves the soil buffering capacity which leads to the stabilization against pH changes.

Physical

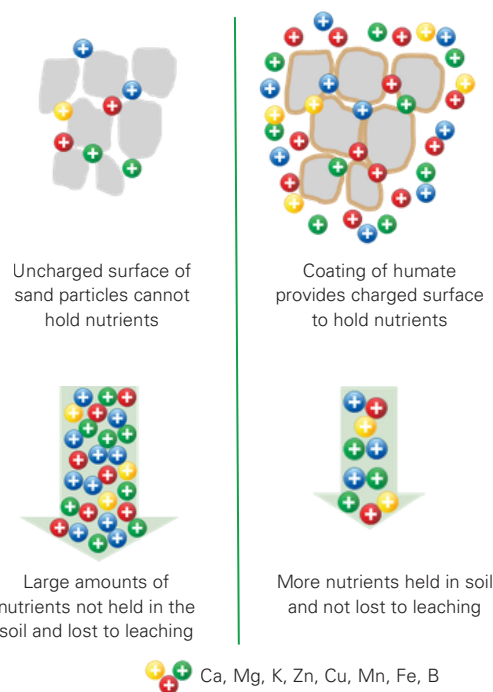
- Promotes soil aggregation and creates better soil structure facilitating improved root penetration enabling better access to available minerals and nutrients.
- Opens up heavy clays and compacted soils.
- Improves soil wetting capability which reduces surface soil crusting and improves water penetration and retention in soils.

What is *Durvillaea potatorum*

Durvillaea potatorum is a species of large brown seaweed (kelp), commonly known as southern bull kelp.

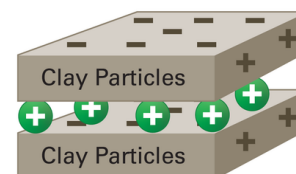


CATION EXCHANGE PROPERTIES

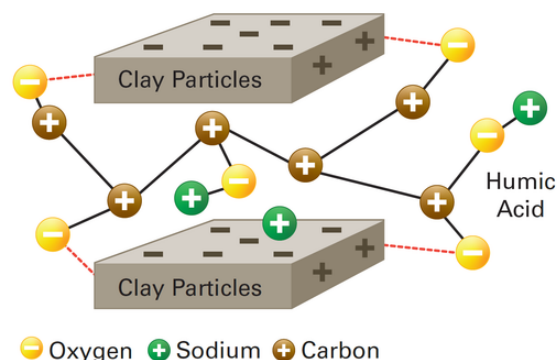


Humic acids, which are trapped in cracks and pores and adhered to the surfaces of sand particles, hold onto many important nutrients which would have otherwise been lost to leaching.

Poor Clay Soil: Compact, hard and impenetrable to roots, water and nutrients



Good Clay Soil: Open, friable and penetrable to roots, water and nutrients



Humic acids help condition heavy clay soils by creating a more open, friable structure. This improves water movement, nutrient availability, root development, and moisture retention, reducing the effects of compaction and poor soil structure.

Benefits of Bull Kelp (*Durvillaea potatorum*)

Plant Benefits

Strong root development driven by auxin-like compounds, which stimulate root initiation, elongation, and lateral root formation, resulting in a more extensive and efficient root system for nutrient and water uptake.

Enhanced plant growth via natural hormones, particularly cytokinins, which promote cell division, improve shoot development, and delay senescence, supporting sustained vegetative growth and overall plant vigor.

Improved fruit quality through better nutrient uptake and hormonal balance, leading to increased yield, larger fruit size, and greater uniformity and consistency at harvest.

Increased abiotic stress tolerance through the presence of osmoprotectants and bioactive molecules that enhance antioxidant activity, maintain cellular integrity, and regulate plant water status, helping plants withstand drought, heat, and salinity stress.

Soil Benefits

Increased microbial activity and populations by supplying organic substrates and signaling compounds that stimulate beneficial soil microorganisms, enhancing nutrient cycling and soil biological health.

Improved soil structure and organic matter through alginates and polysaccharides, which promote soil aggregation, improve porosity, and enhance root penetration and aeration.

Enhanced water-holding capacity and drought buffering due to the hydrocolloid nature of alginates, which help retain moisture in the soil and provide more stable water availability under dry conditions.

Combined Benefits of Humic Acids and Kelp

- ▼ Humic acids improve soil properties and increase nutrient availability.
- ▼ Kelp extract supports plant metabolism and hormonal activity.
- ▼ Together, humic acids and kelp enhance both soil function and plant response.

The result is stronger root growth, better nutrient use efficiency, and greater stress tolerance than either input provides on its own.

Boosting Crop Nutrition & Quality:

- ▼ Research has demonstrated improved uptake of phosphorus and potassium compared with fertilizer alone under trial conditions.
- ▼ Works efficiently with reduced fertilizer rates, improving health and raising quality.
- ▼ Delivers measurable benefits for a modest increase in input costs.

Integrate Rhizovator™ for healthier crops, better fruit, and optimized fertilizer use.

Rhizovator™ has improved yield, product quality, and soil health when used in combination with Bacstim® and Crop4Life®. For the full marketing report and detailed information, please contact your local agronomist.

Frequently Asked Questions:

Q. When is the best time to apply Rhizovator™?

A. For best results apply Rhizovator™ with fertilizer application, or right before fertilizer is applied.

Q. How much Rhizovator™ do I need and how do I apply in the field?

A. Between 1 to 5 gallons per / acre during the growing season is effective. If possible, multiple applications of 0.5 to 1.0 gallons per / acre each spread over the growing season is more effective than a high single dose rate. Before application, dilute Rhizovator™ in water.

Q. Is there a particular soil type or crop that will benefit most from applications of Rhizovator™?

A. Rhizovator™ is beneficial to all crops and soil types, sandy, loamy, and clay soils. It improves nutrient and water retention, leading to more vigorous plant growth and, in the longer term, better soil structure.

Q. Can I reduce my fertilizer applications if I use Rhizovator™?

A. In order to secure the full potential of the crop, it is better to keep the recommended fertilizer rates. Reducing fertilizers will not help sustain the increased plant growth needed to secure a higher crop potential.

Q. How quickly can I expect to see benefits from the use of Rhizovator™?

A. Better nutrient uptake, root growth and plant vigor may be observed within a few weeks. Benefits can continue throughout the growing season with regular applications of Rhizovator™. Effects on physical properties of soils will generally take longer with annual applications. Quality is critical!

Q. Why should I buy Rhizovator™?

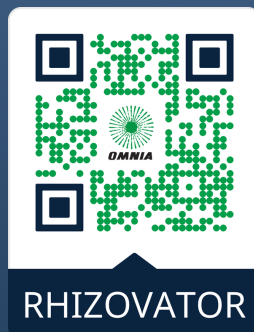
A. Omnia stands behind the quality and humic acid concentration of Rhizovator™. Rhizovator™ is manufactured in Australia using local resources and raw materials. It is imperative to stick with a reputable company that can provide independent lab analysis of their product.

Quality Assurance

Omnia Specialities Australia manufactures one of the highest-quality and most concentrated humic acid products available. The Humic acids are produced in the Latrobe Valley in Gippsland, Victoria, Australia, using only Australian resources and raw materials. Rhizovator™ is a blend of the Australian humic acids with the Southern bull kelp valued by growers for its quality and performance. If comfortable with internationally recognised if challenged, leave as it is.



Innovating to enhance life, together creating a greener future



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