

- Specification Sheet -

RIZOBAC

Rizobac is a microbial inoculant containing beneficial soil bacteria that occur naturally in the soil. Most of these bacteria have the capacity to form spores (gram-positive). Science has documented but it is also field proven that the specific species of bacteria contained in **Rizobac** create an excellent soil environment that promotes the development of the root system, contributes to a better plant nutrition and fortifies plants resistance against stress caused by various environmental and biotic factors.

PROPERTIES AND USES:

Properties of RIZOBAC as a rooting biostimulant

- Ideal rooting medium for all types of plantlets.
- Ensures the quick and safe establishment of all transplanting crops in the soil.
- Improves the physicochemical properties of the soil and increases the root penetration even in concrete soils, while at the same time it contributes to the better aeration of the soil.
- Supplements the organic matter of the soil which is consumed due to intensive cropping.
- Increases the cation exchange capacity (CEC) of the roots.
- Accelerates the cellular divisions of the root tissue (mitosis) that result in the rapid growth of the root.

Properties of RIZOBAC as a microbial inoculant

- Enriches the soil with beneficial bacteria that live either free or in symbiosis with the plant roots and secrete substances which promote both the root system growth and the health of the plant.
- Eliminates the entry gates of the soil pathogens in the root system (mainly fungi).
- Increases the Nitrogen (N) in the soil and also increases the availability of the soil nutrients and micronutrients to the plants.
- Improves the biological structure of the soil creating an ideal environment for the growth of vigorous and highly productive crops.
- Contributes to the growth of high yield crops with great resistant capacity to the soil plant pathogens.

APPLICATION – APPLICATION RATES:

Generally **Rizobac** is applied as follow:

Soil application: 2.5-10 l/ha.

Seed dipping: 150 ml/100 l of water.

Hydroponics: 500 ml/1,000 l of water (with the transplanting water or with watering).

Foliar application: 1 l/1,000 l of water.

STANDARD ANALYSIS

	(w/w)	(w/v)
Total Nitrogen (N)	0.59 %	0.67 %
Total Phosphorus (P ₂ O ₅)	1.17 %	1.32 %
Total Potassium (K ₂ O)	2.50 %	3.25 %
Calcium (CaO)	0.29 %	0.33 %
Magnesium (MgO)	0.08 %	0.09 %
Sulfur (S)	0.08 %	0.09 %

PHYSICAL PROPERTIES:

Appearance:	Fine brown-black fluid
Density:	1.13 g/ml
Solubility:	100% water soluble
pH:	7