

# Tisan Azotobacter

Nitrogen stabilizer required by the plant



Contains Azotobacter chroococcum

- Contains Azotobacter salinestris Bacteria
- Increases soil nitrogen
- Improves plant resistance to environmental stresses like drought and salinity
- Reduces pH in alkaline soils

Guaranteed Analysis: Azotobacter chroococcum 10<sup>9</sup> CFU/ml

#### Dosage:

Fields and Orchards	Dilute 2 litres per hectare with irrigation water. Repeat once a month during the growing season.
Seedling and Sapling Roots	Dilute 2 litres in 100 litres of water, stir well, and soak the roots in the solution for a few minutes before planting.
Soil-Based Greenhouses	Apply 1-2 litres per 1,000 square meters with irrigation water. Repeat once a month during the growing season.
Hydroponic Greenhouses	Use 2 litres per 1,000 litres of water. Repeat every two weeks during the growing season. Preferably applied four times.
Fertilizer Application for Trees (Chalkood)	Dilute 1 litre in 100 litres of water and pour 1 litre of the solution into each hole.
Seed Treatment	Use 1 litre per 100 kg of medium-sized seeds.

- Shake the bottle well before use.
- Avoid mixing this product with copper-based pesticides.
- Besides promoting vegetative growth, this product enhances the plant's tolerance to environmental stresses such as salinity and drought.
- This product is safe for humans and the environment.
- For best results, use in the evening or early morning.
- After opening the seal, use the product as soon as possible.
- When mixing with water, ensure the water is chlorine-free.
- If copper-based pesticides are used, reapply this product one week later.
- Due to the sensitivity of the microorganisms, including Azotobacter chroococcum, avoid applying the product in strong sunlight (UV exposure).
- Store this product in a sealed container away from sunlight, moisture, and food for humans and animals. The storage temperature should be between 4°C and 50°C (If stored at 4°C in a refrigerator, the shelf life increases).

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# Humic Acid

Humic Liquid Fertilizer



- Enhances yield and product quality
- Increases efficiency of other fertilizers
- Aids in the absorption and transfer of micronutrients to aerial parts of the plant
- Stabilizes and retains more cationic and anionic nutrients, reducing leaching
- Boosts root growth and root formation
- Increases beneficial microorganism populations in the soil
- Improves water retention and water-use efficiency in various crops
- Enhances soil physical conditions and organic matter content
- Reduces the toxicity of fertilizers and excess soil elements
- Stimulates plant hormones and enzymes due to active compounds
- Improves plant salinity tolerance by reducing osmotic pressure around roots
- Enhances cold resistance
- Boosts chlorophyll synthesis
- Increases antioxidant activity and production in crops and orchards

#### Dosage:

Citrus	20-30 L/ha	First stage: late winter Second stage: late May
Fibre and Industrial Crops (e.g., cotton, sugar beet, flax)	15-20 L/ha	Early growing season (4-6 leaves): 10 L Pre-bloom: 5-10 L
Grains (wheat, barley, rice, corn)	12-18 L/ha	Tillering: 4-6 L Stem elongation: 4-6 L Pre-heading: 4-6 L
Vegetables (tomato, cucumber, watermelon)	15-20 L/ha	Early growing season: 5-10 L Pre-bloom: 4-8 L Fruit fill: 4-8 L
Fruit Trees (apple, pear, peach, apricot, pistachio)	Young trees: 15-20 L/ha Mature trees: 25-35 L/ha	First application: winter trench (late February) Second application: post-bloom
Legumes (chickpea, bean, lentil, soybean)	12-18 L/ha	Two to four leaves: 4-6 L Pre-bloom: 4-6 L Post-pod formation: 4-6 L

Humic acid is a complex organic compound that can chemically and physically amend the soil; therefore, soil application is the optimal method. Due to its high molecular weight, humic acid cannot be absorbed via foliar application. Only the fulvic acid, potassium, nitrogen, iron, and amino acids will be absorbed if using RTS Humic as a foliar spray.