



IRA Biotech

I-URI

Nitrogen Fixation Bacteria

I-URI is an advanced nitrogen-fixing bio-formulation powered by a consortium of beneficial microbes like Azotobacter and Rhizobium. It converts atmospheric nitrogen into plant-available forms, enhancing soil fertility and nutrient uptake. By stimulating microbial activity and supporting plant growth, it promotes stronger, healthier crops. The result is improved crop vigor, higher yields, and sustainable soil health.

Product Features

Mode of Action

- ❖ Colonizes the root zone and establishes a beneficial microbial association with plants.
- ❖ Fixes atmospheric nitrogen into plant-available forms in the soil.
- ❖ Multiplies in the rhizosphere, continuously enhancing nitrogen availability.
- ❖ Stimulates beneficial microbial activity, improving soil health and fertility.
- ❖ Enhances nutrient uptake and supports vigorous plant growth.

Expected Results

- ❖ Enhanced nitrogen availability for improved plant nutrition.
- ❖ Stronger root development and better crop establishment.
- ❖ Increased plant vigor and uniform growth.
- ❖ Improved soil fertility and beneficial microbial activity.
- ❖ Higher yields with better crop quality and productivity.

Safety Directions

- ❖ Avoid inhalation of dust or spray mist
- ❖ Wash hands after use
- ❖ Use in well-ventilated areas

Environmental Protection

- ❖ Contains naturally occurring microorganisms
- ❖ Do not contaminate waterways with product or container



Product Analysis:

Azotobacter..... 3%
Dextrose..... 97%

Physical Characteristics:

White Powder, Water Soluble, pH: 5.5-8.5

Application:

Application Rate:

- ❖ 100 grams per hectare

Application Method:

- ❖ Soil application or via drip irrigation (fertigation)
- ❖ Dissolve 100 g in 700–1000 litres of water per hectare
- ❖ Apply uniformly to the root zone
- ❖ Foliar Spray 100g in 500 litres of water and spray for 1 hectare

Compatibility:

Compatible with most organic inputs. Avoid mixing with chemical fungicides, bactericides, or disinfectants.

Storage

- ❖ Store below 30°C in a cool, dry place
- ❖ Keep container tightly closed
- ❖ Protect from direct sunlight

