NoduMax: Inoculant for Soybeans

Advanced Soybean Inoculation Solution for Sustainable Agriculture

This technology is a solid inoculant, which contains the industry-standard strain USDA 110 and includes a gum Arabic adhesive and user instructions. It is packed in 100 g packets sufficient for 10 to 15 kg soybean seed.

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This technology is TAAT1 validated.

7·7 Scaling readiness: idea maturity 7/9; level of use 7/9

Gender assessment 4

Climate impact 7

Problem

- Poor Root Nodulation and Low Biological Nitrogen Fixation (BNF) in Soybeans
- Lack of Quality Inoculant in the Market
- Limited Access to Affordable Inoculants in African Countries
- Complex Application Procedures
- Lack of Protein Sufficiency and Soil Fertility in Soybean Production
- Clumping in Alternative Inoculation Methods

Solution

- Promotes biological nitrogen fixation, reducing the need for expensive nitrogen fertilizers.
- Ensures the presence of symbiotic rhizobium bacteria, optimizing root nodulation for improved nutrient absorption.
- Enhances BNF, thereby boosting soil fertility and reducing reliance on synthetic fertilizers.
- Promotes natural nutrient cycling in the soil, contributing to sustainable agricultural practices.

Key points to design your project

- Implementation steps for the technology include assessing product quantities, considering delivery costs, and engaging trainers for installation support.
- Communication support, such as flyers, videos, and radio broadcasts, should be developed to promote the technology.
- For improved maize variety optimization, companion planting with resistant soybean varieties and proper nutrient fertilization is recommended.
- Collaboration with agricultural development institutes and agro-dealers facilitates successful technology implementation.

Cost: $$$ **3.20 USD**
For the purchase of 100g

ROI: $$$ **1 USD**
Profit per unit for retailers

150,000 USD
To build the NoduMax factory

120,000 USD
To equip the NoduMax factory

IP
Unknown

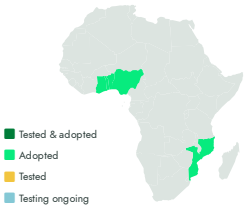
Technology from
ProPAS

Commodities
Soybean

Sustainable Development Goals

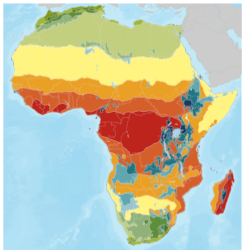
Categories
Inputs, Inoculant

Tested/adopted in



Where it can be used

This technology can be used in the colored agro-ecological zones.



Target groups
Farmers