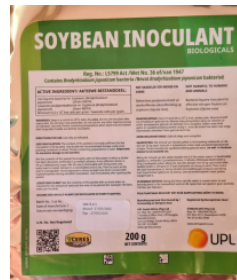


# Soybean inoculant: Rhizobium inoculant range, various strains

N-fixing bacteria to reduce chemical fertilizer use

Stimuplant is a specialized range of inoculants designed for various legume crops. It capitalizes on a unique symbiotic relationship between the legume plants and a beneficial bacterium known as Rhizobia. This natural partnership results in the addition of significant nitrogen levels to the soil, ranging from 40 to 150 kg per hectare.



**UPL**  
Florent Clair

Commodities

Soybean, Groundnut, Cowpea,  
Common bean

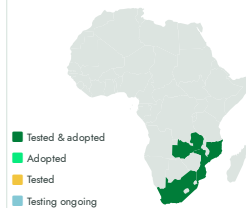
Sustainable Development Goals



Categories

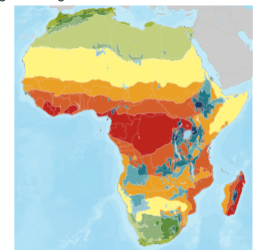
Production, Inputs, Inoculant

Tested/adopted in



Where it can be used

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



Target groups

Farmers

✓ This technology is **validated**.

9-9



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

Inclusion assessment

5

Climate impact

7

## Problem

- Nitrogen limitation hampers plant growth, particularly affecting legume crops.
- Soil degradation arises from excessive reliance on chemical fertilizers.
- These factors culminate in economic hardships and food insecurity among farmers.

## Solution

- UPL Powder Carrier Technology shields bacteria from harsh environmental conditions like high temperatures and pH fluctuations.
- It holds the CERES organic certification, meeting stringent organic standards.
- Tailored packaging suits the needs of smallholder farmers, enhancing accessibility.
- The powder formulation extends shelf life to 9 months, reducing wastage and improving efficiency.

## Key points to design your project

To integrate this technology into your project, follow these steps:

- Estimate the quantity of products needed based on a cost range of USD 15-25 per hectare.
- Consider the accessibility of the technology in South Africa and calculate delivery costs, including potential import clearance and duties.
- Arrange training and support from a team of trainers during installation, factoring in the associated costs.
- Develop communication materials such as flyers, videos, and radio broadcasts to raise awareness about the technology.
- Enhance the effectiveness of the improved maize variety by companion planting with soybean varieties resistant to pests and diseases, and focus on nutrient fertilization.
- Collaborate with agricultural development institutes and agro-dealers to facilitate technology implementation in your country.

Cost: \$\$\$ **15—25 USD**

Product cost /ha

ROI: \$\$\$ **35 %**

Yield increase



Open source / open access



Soybean inoculant

<https://taat.africa/pad>

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Enquiries [e-catalogs@taat.africa](mailto:e-catalogs@taat.africa)