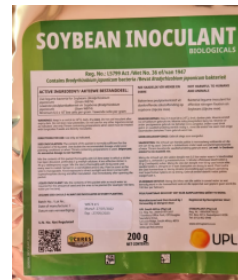


# Soybean inoculant: Rhizobium inoculant range, various strains

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.



**Stimuplant company, UPL**  
Florent Clair

## Commodities

Soybean, Groundnut, Cowpea,  
Common bean

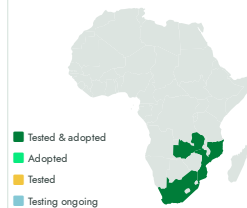
## Sustainable Development Goals



## Categories

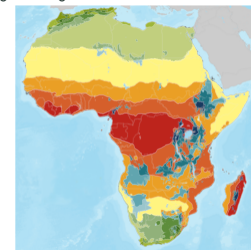
Production, Inputs, Inoculant

## 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

Cost: \$\$\$ **15–25 USD**

Product cost /ha

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

Yield increase



Open source / open access

## 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 business plan

- Rhizobium Inoculant technology ensures cost-effective and sustainable farming, enhancing yields and soil health while reducing reliance on expensive fertilizers.
- It promotes economic benefits and contributes to environmentally friendly agriculture.
- Key partners required are suppliers of Rhizobium Inoculant.
- The cost structure ranges from 15 to 25 USD per hectare, depending on the crop and country.
- Storage requirements are minimal, with only 100g/ha needed on average, stored ideally at 4 to 24°C and away from pesticides.
- Estimating profitability is essential for assessing the impact of the product's use.

Gender assessment

5

Climate impact

7



Soybean inoculant

<https://taat.africa/dql>

Last updated on 17 March 2025, printed on 15 May 2025

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