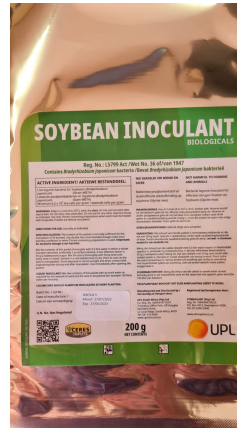


Soybean inoculant Rhizobium inoculant range, various strains

N-fixing bacteria to reduce chemical fertilizer use

Stimulant 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.



Stimulant company, UPL
Florent Clair

Commodities

Soybean, Groundnut, Cowpea,
Common bean

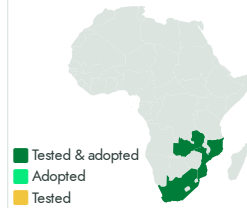
Sustainable Development Goals



Categories

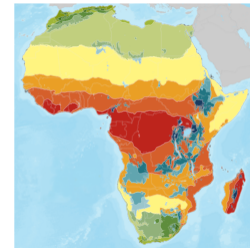
Production, Inputs, Inoculant

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 **pre-validated**.

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 **4**

Climate impact **7**



Soybean inoculant

<https://e-catalogs.taatafrica.org/com/technologies/soybean-inoculant-rhizobium-inoculant-range-various-strains>

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