

Multifunctional biopesticide Ecopticide Agri

Ecopticide Agri, your 3-in-1 bio product against insect, fungi and nematode

Ecopticide Agri is a multi-functional solution acting as an insecticide, fungicide, nematocide, and bactericide, offering comprehensive protection against various pests and pathogens. Its formulation prevents resistance development among pests and reduces the risk of infestations when used preventively.



Arknergie Innovation
Dr. Kofi Abokitse

Commodities

Maize, Fruits, Vegetable crop,
Other root/tuber

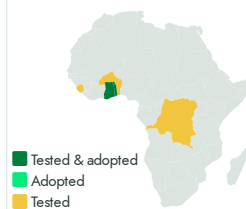
Sustainable Development Goals



Categories

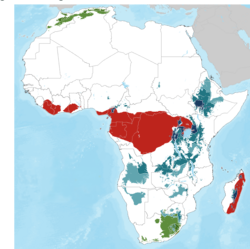
Production, Inputs, Pesticide

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: **20 USD**
Initial cost

ROI: **200 %**
Benefit

Problem

- Traditional pest management products cause harvest losses, reducing agricultural productivity.
- Conventional pest control harms the environment, causing soil depletion, heightened drought vulnerability, and biodiversity loss.
- Pests develop resistance to existing products, posing ongoing challenges for farmers.
- Chemical pesticides have limited effectiveness against new pest species like the fall armyworm, leaving crops inadequately protected.

Solution

- It acts as a pesticide, fungicide, and nematocide, addressing pest and disease challenges.
- It is fully biodegradable, reducing concerns about soil depletion and biodiversity loss.
- The concentrated formula boosts crop output by tackling low production yields associated with traditional pest management.
- It contains no harsh solvents, ensuring environmental safety and minimal ecosystem impact.

Key points to design your business plan

For Manufacturers:

- Obtain the necessary license from the technology provider and secure reliable suppliers for raw materials.
- Consider an initial investment of 300,000 USD and operating costs of 30,000 USD.
- Forming strong partnerships with distributor networks is crucial for success.

For Users:

- Account for delivery expenses and import duties, with the cost of 20 USD/L.
- Anticipate a gross benefit of 64,000 USD and a 200% return on investment.
- Collaborate with agricultural institutes, fertilizer suppliers, and service companies to optimize results.

Gender assessment **4**

Climate impact **7**



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<https://e-catalogs.taatafrica.org/com/technologies/multifunctional-biopesticide-ecopticide-agri>

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Enquiries techs@taatafrica.org