Thermostable vaccine against PPR disease

Reliable, Effective, and Accessible Disease Control for Small Ruminants.

The vaccine, available in two forms, effectively protects small ruminants against PPR. The ILRI thermotolerant PPR vaccine, produced through the Thermovac process, and Xerovac are both stable at ambient temperatures, even enduring spikes of 38°C for 9 days and 40°C for 7 days.

International Livestock Research Institute (ILRI)
Tunde Amole

This technology is TAAT1 validated.

8·7

Scaling readiness: idea maturity 8/9; level of use 7/9

Cost: $$$ **0.3—1.0 USD**

Vaccine dose cost per animal

ROI: $$$

IP

Open source / open access

Problem

- High mortality rates among small ruminants due to PPR.
- Limited vaccine storage options hindering widespread use.
- Economic losses estimated at USD 2.1 billion yearly.
- Previous constraints in maintaining vaccine stability.
- Restricted coverage of vaccination campaigns.

Solution

- No need for cold storage, easing access and logistics.
- Effective for up to two weeks without refrigeration.
- Demonstrated efficacy in multiple countries against PPR.
- Reduces storage costs, making it more affordable.
- Vaccinates more animals in less time, enhancing disease control.

Key points to design your business plan

- Utilizing Disease Eradication through Thermotolerent PPR Vaccines technology reduces PPR outbreaks among small ruminants, enhancing food security and farmers' livelihoods.
- Sellers of the product are crucial partners, with vaccine costs ranging from 0.3 to 0.5 USD per animal.
- Vaccination is recommended for all goats and sheep, regardless of scale, with a well-organized vaccinator capable of treating up to 5,000 animals monthly.
- No permits are required for animal owners, but ensuring treatment for all animals is strongly encouraged or mandated.

Inclusion assessment 5

Climate impact 5

Technology from

ProPAS

Commodities

Small livestock

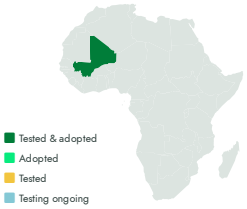
Sustainable Development Goals

+ 1 more

Categories

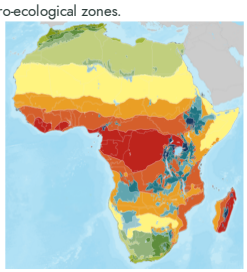
Production, Inputs, Pesticide

Tested/adopted in



Where it can be used

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



Target groups

Breeders