PPR Vaccines Disease Eradication through Thermostable PPR Vaccines

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

A goat showing severe symptoms of PPR infection

International Livestock Research Institute (ILRI)
Tunde Amole

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 40°C.

This technology is TAAT1 validated.

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

Gender assessment 5

Climate impact 5

Problem

- High mortality rates among small ruminants due to PPR.
- Limited vaccine storage options hindering widespread use.
- Economic losses estimated at US $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 project

The technology reduces economic losses and poverty among small ruminant farmers by preventing PPR outbreaks and improving food security. It also enhances animal health, reduces disease spread, and promotes economic growth. To integrate this technology into your project:

1. Ensure availability and affordability of thermostable vaccines.
2. Educate producers on PPR vaccination benefits and encourage their investment.
3. Ensure compliance with vaccination instructions.
4. Train and certify animal health professionals.

Calculate required product quantity based on a cost of 0.5-1.0 USD per animal. Consider additional expenses like delivery, import clearance, and duties if sourced from specific countries. Budget for training and support during project implementation and consider collaborating with agricultural institutes.

Cost: $$$ **0.5—1.0 USD**

Vaccine dose cost per animal

ROI: $$$

IP

Open source / open access

Technology originally documented by

ProPAS

Commodities

Small livestock

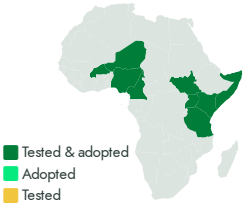
Sustainable Development Goals

+ 1 more

Categories

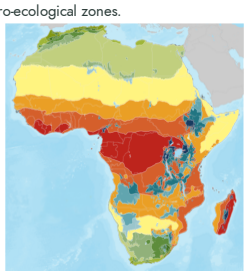
Production, Inputs, Pesticide

Tested/adopted in



Where it can be used

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



Target groups

Breeders