

Applied Biosystems: Comprehensive Animal Health Diagnostic Tools



To enable our customers to make the world healthier, cleaner, and safer

Thermo Fisher's Animal Health diagnostic technologies include advanced tools such as the Avian Influenza Kit, VetMAX Master Mixes, MagMAX Core Sample Extraction Kits, and the QuantStudio 5 Real-Time PCR system. Together, these tools are designed for the precise detection of animal pathogens, especially avian influenza, through high-sensitivity PCR-based diagnostics.

ThermoFisher
SCIENTIFIC

Thermo Fisher Scientific
Thulile Nhlapo

Commodities

Livestock

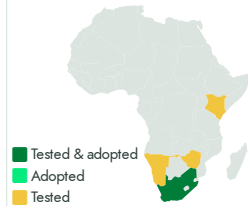
Sustainable Development Goals



Categories

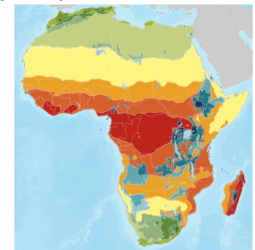
Production, Equipment, Pest control

Tested/adopted in



Where it can be used

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



Target groups

Breeders, Veterinary Laboratories, Researcher center

This technology is **pre-validated**.

9-9



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

Cost: \$\$\$ **15 USD per sample**

For routine testing

150,000 USD

Installation of a qPCR workflow for extraction to result

Problem

- **High Economic Impact:** Outbreaks like avian influenza cause mass culling and major economic losses, affecting food security.
- **Yield Losses:** Disease outbreaks in livestock reduce productivity, impacting farmers' incomes, especially for smallholders.
- **Limited Lab Resources:** Many veterinary labs lack resources for reagent preparation and complex diagnostics, limiting accessibility to reliable testing.

Solution

- **High Sensitivity and Specificity:** Real-Time PCR Kits (e.g., Avian Influenza Kit) detect low pathogen levels for early disease detection and containment.
- **Streamlined Sample Processing:** MagMAX Kits simplify DNA/RNA extraction, increasing efficiency and reducing sample processing time.
- **User-Friendly and Resource-Efficient:** Simplified protocols and minimal prep make the technology accessible for smallholder farmers and resource-limited labs.

Key points to design your business plan

For Resellers:

- Promote Thermo Fisher's diagnostic tools to improve disease control and animal health.
- Source products in bulk and partner with local veterinary clinics, labs, and agricultural organizations.
- Ensure proper storage and distribution.
- Target customers: veterinary clinics, labs, farms, development projects, and government agencies.

For Users:

- Use Thermo Fisher's diagnostics for faster disease detection and healthier livestock.
- Assess costs, benefits, and availability through authorized distributors.
- Training is key for effective use.
- Partner with retailers or agro-dealers to maximize profit and productivity.

Gender assessment



Climate impact





<https://e-catalogs.taat-africa.org/com/technologies/applied-biosystems-comprehensive-animal-health-diagnostic-tools>

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