

Citizenry Charter, Products, Services and Costs



KENYA AGRICULTURAL AND LIVESTOCK RESEARCH ORGANIZATION (KALRO)

VETERINARY RESEARCH INSTITUTE (VRI), MUGUGA NORTH

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The Kenya Agricultural Livestock Research Organisation (KALRO), develops and disseminates appropriate agricultural technologies in collaboration with stakeholders, to contribute to sustainable improvement of livelihoods of Kenyan citizens by increasing agricultural productivity, post-harvest value of agricultural crops and livestock products while conserving the environment.

The Veterinary Research Institute (VSRI) is one of the KALRO Institutes conducting livestock research. Its headquarters are at KALRO Muguga North, 30km from Nairobi City and 8km west of the Nairobi/Nakuru Highway. The Institute's other Centre is the Typanosomiasis Research Centre (TRC) Alupe in Busia County. The core business of the Institute is research aimed at alleviating the impact of livestock diseases and thus contributing to reduction of poverty and improvement of the livelihoods and food security in Kenyan households.

VSRI Muguga is a referral Centre for control and management of livestock diseases of national importance, namely, tick-borne diseases (East Coast Fever, Anaplasmosis, Babesiosis, Heartwater), Malignant Catarrhal fever, Bovine Viral Diarrhoea, *peste des petits ruminants* (PPR) Contagious Bovine and Caprine Pleuropneumonias, Capripox Virus Infections and Helminthosis. The institute also addresses aspects related to development and validation of novel livestock vaccines.

Packages for diagnoses, management and control of the disease undergo adaptive research to validate their effectiveness in various agro-ecological zones and livestock production systems in the country.

WHAT WE DO

Our research programs are conducted in the centres as detailed below:

1) VSRI – Muguga North Centre

Tick-borne Diseases Laboratory

- Carries out research on East Coast Fever (ECF), Anaplasmosis, Babesiosis and Heartwater.
- The main research objective is to enhance the control of ticks and tick-borne diseases through the development of appropriate, rapid and sensitive diagnostic tests and identification and validation of safe, effective and affordable chemotherapeutic agents.
- The main research thrust is development and validation of appropriate strategies for immunization against tick-borne diseases.

Livestock Virology Laboratory

- Carries out research on the diagnosis, epidemiology and control of *peste des petits ruminants*, Malignant Catarrhal Fever, Bovine Viral Diarrhea, Lumpy Skin Disease and Capripox Virus Infections.
- The laboratory has expertise in research on PPR vaccines and use of Polymerase Chain Reaction (PCR) in the differential diagnosis of diseases.

Zoonosis and Food Safety Laboratory

- Monitors status of foods for human consumption.
- Conducts research in foodborne infections and poisoning.
- Gathers epidemiological information on zoonotic infections such as TB, Brucellosis and Rift Valley Fever

Helminthology Laboratory

- Carries out research on all aspects of helminthosis, which cause insidious losses in all species of livestock in Kenya.

- The main research thrust is to develop and validate sustainable, cost-effective helminth control strategies necessary to maintain optimum livestock productivity in different production systems and agro-ecological zones.
- The laboratory champions the development of Medicated Urea Molasses Block (MUMB) for helminth control.

Bacteriology Laboratory

- Focuses on the epidemiology and control of livestock diseases caused by mycoplasma, namely Contagious Bovine Pleuropneumonia (CBPP) and Contagious Caprine Pleuropneumonia (CCPP) which are devastating trans-boundary epidemic diseases of cattle and goats respectively.
- Their control is essential to safeguard the national livestock populations and those in the neighboring countries and allow international trade.
- The laboratory is in the process of developing a PH-based penside kit for rapid diagnosis of subclinical mastitis.

The cross-cutting issues of the Social-Economics and Biometrics are handled by the **Socio-Economics and Applied Statistics Division**.

This division helps to assess the appropriateness, cost effectiveness, perceptions, end-users concerns, delivery pathways and adoption of livestock technologies.

2) VSRI – Alupe Centre

- Tsetse and Human African Trypanosomiasis (HAT) Surveillance: The sleeping sickness referral hospital carries out passive and active surveillance for HAT
- Surveillance for African animal trypanosomiasis.

PRODUCTS, SERVICES AND COSTS

1. BIOLOGICAL PRODUCTS		
Disease Diagnostic Services	Charges per Sample KShs*	Time Taken
Tick-borne Diseases (ECF, Anaplasmosis, etc)	200	Same Day
Worm Diseases	40	Same Day
<u>PPR</u>		
cELISA	400	Four Days
VNT	800	Four Days
AGID	240	Seven Days
Virus Isolation and Identification	800	Four Days
PCR	2,800	Two Months
<u>CBPP</u>		
cELISA	320	Four Days
CFT	320	Four Days
Isolation and Growth Inhibition	2,400	Seven Days
Products		
Vaccines-ECF	200 per Dose	Same Day

Molasses Urea Mineral blocks (MUMBs)	100/kg	Same Day
2. FARM PRODUCTS		
2.1 Hay-Ordinary -Rhodes	200 250	Same day
2.2 Tree Seedlings (Fruits, flowers and trees)	5-150/= each	Same Day
3 TRAINING		
3.1 Students in tertiary institutions and universities 3.2 Foreign trainees 3.3 Veterinary service providers	Ksh. 2000/= per month Charges by agreement	Seasonal
4 DISSEMINATION AND TRAINING MATERIALS		
4.1 Video documentaries Improved Practices of Rearing Indigenous Chickens (KARI-VRC), 2008 <i>Ufugaji Bora wa Kuku wa Kienyeji</i> (KARI-VRC), 2008	300	Available on demand "
4.2 Assorted brochures on technologies for improved livestock management	300	"

Other services available on request:

- Post-mortem services:- Chicken, cattle, goats, sheep etc
- Pregnancy diagnosis for cattle
- ECF Immunisation for cattle
- Packaging of technologies
- Technical support to national tasks.

Training course on request

- The centre provides tailor-made training courses on disease diagnosis, epidemiology and control.
- Making of Medicated Urea Molasses Blocks (MUMB).

The centre has quality animal disease containment facilities for research and training.

Leaflets on:

- 1) Molasses –urea feed blocks for livestock deworming and feed supplementation
- 2) Improved orma boran cattle breed for reclamation and effective utilization of tsetse and typanosomiasis infected lands and
- 3) Vaccines for control of east coast fever (ECF) in cattle.
Potential technologies include CBPP, CCP and Mastitis Diagnostic Kits.

**Charge fees subject to review at the discretion of management.*

**Orders will be honored within one week*

**The medicated block weights range from 2kg, 2.5kg, 5kg but the price remains at Kshs 100 per kg*