## **MENBUTIOX**

## IMPROVE DIGESTIVE PROCESSES

#### Formula:

Indications:	
Formulation agents	q.s.
Lidocaine hydrochloride	0,40 g
Thioctic Acid	0,50 g
Menbutone	10,00 g
Each 100 ml contains:	

To normalize gastric, duodenal and bile functions. To stimulate digestive secretion in case of indigestion, toxemia, ketosis, anorexia, pancreatic/hepatic insufficiency.

Lidocaine hydrochloride avoids pain at injection site

#### Animal species to which it is intended:

Cattle, sheep, goats, swine, horses and dogs.

#### Administration and dose:

1ml per 10 kg live-weight.

Recommended doses:

Adult cattle	20- 40 mL
Sheep and goats	5- 10 mL
Swine	
Horses	20- 30 mL
Dogs	1mL / 10 k.l.w.
Repeat every 12 to 24 hours.	

Three applications are recommended -as minimum.

It is administered by deep intramuscular or slow intravenous injection. In horses, only by slow intravenous injection.

#### Presentation:

Flasks containing 50 or 100 ml.







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MENBUTIOX is an innovative combination of Menbutone and Thioctic Acid, two field-proven active ingredients in the treatment of digestive dysfunctions and disorders.

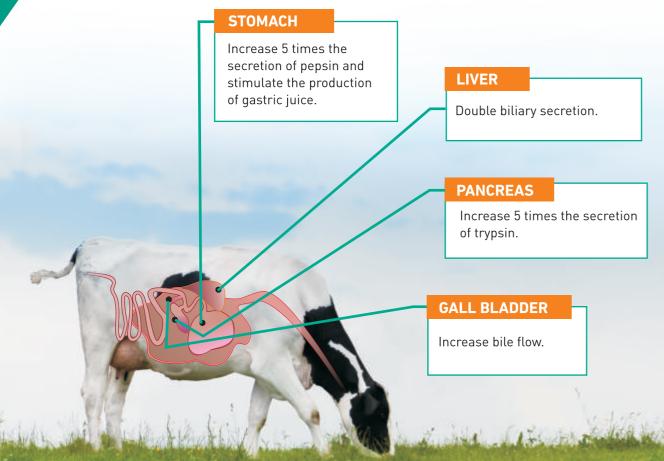
### **MENBUTONE**

Menbutone, or genabilic acid, is a derivative of propionic acid which acts on the gastrointestinal tract, more specifically on liver, pancreas and stomach. It acts on exocrine glands of digestive tract increasing biliary, pancreatic and gastric secretions. It has a strong digestonic function by the stimulation of digestive glands.

WHEN TO USE MENBUTIOX ?

Indigestions, toxaemia, ketosis, pancreatic and liver insufficiency, constipation, diarrhea, abomasitis, tympanites, parasitosis, stress in artificial breeding, loss of appetite, colics and food changes, fatty liver, anorexia and convalescences.

## **ACTION**





## THIOCTIC ACID

It is also known as Lipoic acid. It is a natural substance that contains two sulfur molecules that may be oxidized and reduced.

In this way, it performs the following functions:

- . Be a cofactor of a big quantity of enzymes.
- . Be a potent anti-oxidant.





Thioctic acid acts as cofactor for several multi-enzyme complexes that catalyze critical reactions to get cellular energy.

THIOCTIC ACID

Chelating agent of
Metal Ion. Thioctic acid may
chelate free ions of iron and
copper preventing oxidative
damages in the tissues. It
facilitates biliary excretion of
metals when hepatobiliar
transport is glutathione
dependant.

2

Thioctic acid is a reducing agent which helps to regenerate an important number of antioxidants.

Particularly, it may reduce oxidized forms of vitamins C & E, CoQ10, and glutathione.

3

In the liver, thioctic acid is part of numerous metabolic reactions that increases glutathione levels. This is probably the mechanism of detoxifying effects. In case of liver intoxication, the thioctic acid does not directly neutralize the toxin but keep hepatic function reestablishing normal GPT levels.