



User's Manual

## Terbutaline ELISA Kit



DEIA-XYZ39



96T



This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

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## PRODUCT INFORMATION

### Intended Use

This ELISA Test Kit is a competitive enzyme immunoassay for the quantitative analysis of Terbutaline and other related  $\beta$ -agonists in feed, tissue (meat, liver and kidney), milk, serum, plasma and urine.

### General Description

Terbutaline is one of  $\beta$ -agonists illegally used in livestock production. It can improve the meat/fat ratio in fattened animals and accelerate livestock growth. It is also used as a fast-acting bronchodilator (often used as a short-term asthma treatment) and as a tocolytic to delay premature labor. Therefore, excess terbutaline residues in livestock products may lead to health risks for consumers. This has led to a prohibition of terbutaline use in food production by most countries. The amount of terbutaline residues can be determined by methods such as HPLC or GC-MS. However, these traditional methods usually require very expensive preparation procedures. Alternatively, enzyme immunoassay (ELISA) can be used as a screening system, which is simple, rapid, sensitive and cost-effective compared with traditional methods.

### Storage

2-8°C

### Reconstitution And Storage

The shelf life is 12 months when the kit is properly stored.

### Detection Range

The kit has the capacity for 96 determinations or testing of 42 samples in duplicate

### Detection Limit

feed: 1.0 ppb; meat: 0.025/0.1 ppb; Milk: 0.25 ppb; Urine: 0.25 ppb