



User's Manual

Beta-Agonist ELISA Kit



DEIA-XYZ36



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 clenbuterol, salbutamol, bitolterol, carbuterol and other related beta-agonists in feed, meat, liver, kidney, milk and urine.

General Description

Beta-agonists can improve the meat-to-fat ratio in fattened animals and accelerate livestock growth. They also have a relaxing effect on non-striated musculature and can be used as antiasthmatic and tocolytic agents in human beings. Therefore, excess beta-agonist residues in livestock products may lead to health risks for consumers. This has led to a prohibition of beta-agonist use in food production. The amount of beta-agonist 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

meat: 0.1/6.5 ppb; Urine: 0.25/15.0 ppb; feed: 1.0/59.0 ppb; Milk: 0.25/12.6 ppb

References

1. Noppon, B. and Noimay P. (2012) MONITORING OF BETA AGONIST RESIDUES IN SWINE TISSUES FROM NORTHEASTERN THAILAND. International Journal of Arts & Sciences, 5(4):151–155