Assay Kit for Sulphonamides

Cat.N. SM363

A wrong use of Sulphonamides in breeding or feed infection can determine the presence of residuals in biological fluids and animal tissues. Nowadays USA and EU legislations allow a maximum concentration of Sulphonamides residuals of 100 ppb (ng/gr) in meats.

ELISA Assay
For quantitative determination of Sulphonamides in various matrices.

Test Principle
The kit is based on the principle of a competitive direct enzyme immunoassay.

Samples Submittable to Analysis
Muscle, organs, urine, serum and feed.

Specificity (cross-reactivity)

Sulphametazine	20%
Sulphadimetoxine	100%
Sulphamonometoxine	2%
Sulphamerazine	2%
Other Sulfonamides	<0.1%

Standard curve range
0,5-64 ng/ml in standard curve.

Detection Limit
Following the sample preparation suggested in the kit it is possible to detect the presence of Sulphonamides at 2,5 ppb in urine, 5 ppb in tissues and eggs and 10 ppb in feed, 10,5 ppb in serum and 0,5 ppb in milk.

Measurement range
Tissues, eggs: 5-640 ppb;
Milk: 0,5-64 ppb;
Urine: 2,5-320 ppb;
Feed: 10-1280 ppb;
Serum: 10,5-1344 ppb.

IC 50%
6-15 ng/ml

Sample Preparation
- Direct for milk
- Simple dilution for serum
- Dilution and centrifugation for urine
- Omogenization, extraction and centrifugation for tissues, feed and eggs.

Incubation Time
20 minutes.

Kit Content
-Microtiter 96-well plate (12 strips with 8 wells breakable) with adsorbed antibodies
-Enzyme Conjugate liophylized
-Sulphametazine Standards
-Stop Solution
-Washing Buffer
-Sample Dilution Buffer
-Enzyme Conjugate Dilution Buffer
-Citrate buffer;
-Cromogen
-Instructions

Material not Provided
Methanol, for feeds only.

Instruments Required
-Multichannel Micropipette 100µl
-Micropipette 10-200-1000 µl
-Omogenizator
-Mill
-Balance
-Centrifuge
-Agitator
-ELISA Plate Reader equipped with a 450 nm filter

Storage: At 4°C

Manufacturer
Tecna S.r.l., ISO9001/UNI EN ISO 9001 – Ed. 2000 certified (SGS N°. IT01/0291).

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