

Product information

Product name: Sulfamethazine (SM2) ELISA-Test Kit

Product number: ES-5

General Description: Sulfamethazine (SM2) is wide use antibiotic, which has remarkable effect on controlling and curing livestock and poultry diseases. But it is easy to remain in animal body; also has considerable side effect on human, which can cause faint, headache, exhaust, nausea, vomit, etc; lead to hemolytic anemia, a vacuity of granulocyte, allergic reaction and damage urinary and nervous system; cause the increasing tolerance of drugs.

Principle: The GreenSpring™ Sulfamethazine (SM2) ELISA test Kit is based on the competitive enzyme immunoassay for the detection of Sulfamethazine(SM2) in the tissue(chicken, pork), milk, honey and egg. The coupling antigen is pre-coated on the micro-well stripes. The Sulfamethazine in the sample competes with the coupling antigen pre-coated on the micro-well stripes for the antibodies against Sulfamethazine. After the addition of the enzyme conjugate, the TMB substrate is added for coloration. The optical density (OD) value of the testing sample has a negative correlation with the content of Sulfamethazine in the sample. This value is compared to the standard curve and the content of the corresponding Sulfamethazine is subsequently obtained.

Specifications

Format: 96 wells/kit (12 strips with 8 removable wells each)

Sensitivity: 1.0 ppb

Detection limit: Meat (chicken, pork), liver (chicken, pork), honey, egg - 1 ppb
serum, urine - 4 ppb, milk 20 ppb

Crossreaction rate: Sulfamethazine – 100%

Sample processing time: chicken (pork, liver) – 20 min, honey, egg, serum, urine, milk – 10 min

Detection time: 90 min.

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