

Product information

Product name: Diethylstilbestrol (DES) ELISA-Test Kit

Product number: ED-4

General Description: Diethylstilbestrol (DES) is a synthetic estrogen. Diethylstilbestrol (DES), together with dienestrol and hexestrol belongs to the group of stilbenes. Increased weight gain and improved feed conversion after administration of DES has been observed in cattle, chicken and lambs. However, in the EC the use of anabolics has been banned, and especially DES has been banned in all countries due to its carcinogenic properties.

Principle: The GreenSpring™ Diethylstilbestrol (DES) ELISA Test Kit is based on the competitive enzyme immunoassay for the detection of Diethylstilbestrol(DES) in the feed, urine, liver, meat, shrimp and fish samples. The coupling antigen is pre-coated on the micro-well stripes. The Diethylstilbestrol in the testing sample competes with the coupling antigen pre-coated on the micro-well stripes for the antibodies against Diethylstilbestrol. 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 Diethylstilbestrol in the sample. This value is compared to the standard curve and the content of the corresponding Diethylstilbestrol is subsequently obtained.

Specifications

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

Sensitivity: 0.1 ppb

Detection limit: fish and shrimp – 0.2 ppb; liver and meat – 2 ppb; feed – 20 ppb; urine – 0.6 ppb

Crossreaction rate: DES – 100%; dienestrol – 38.5%; hexestrol – 8.5%; ethinylestradiol - <0.1%; estriol - (0.1%

Sample processing time: fish, shrimp, liver, meat, feed and urine – 20 min.

Detection time: 80 min.

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