

Product information

Product name: Nitrofuran (semicarbazide; SEM) ELISA-Test Kit

Product number: EN-2

General Description: Nitrofurans, which are effective against a wide range of bacteria, include semicarbazide, furazolidone, nitrofurazone, nitrofurantoin, and related compounds. The Food and Drug Administration has prohibited all uses of nitrofuran drugs in food-producing animals because they pose a public health risk. The rule went into effect on May 7, 2002 and is the result of evidence that the drugs may induce carcinogenic residues in animal tissues.

Principle: This test kit is based on the competitive enzyme immunoassay for the detection of semicarbazide (SEM) in the tissue (chicken, fish, shrimp), milk, honey, whole egg. The coupling antigen is pre-coated on the micro-well stripes. The SEM in the testing sample competes with the coupling antigen pre-coated on the micro-well stripes for the antibody against SEM. After the addition of the enzyme conjugate, the TMB substrate is added for coloration. The optical density (OD) value of the testing sample is inversely proportional to the SEM in the sample. This value is compared to the standard curve and the content of the corresponding SEM is subsequently obtained.

Specifications

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

Sensitivity: 0.1 ppb

Detection limit: tissue, honey, egg - 0.2 ppb; fish, shrimp (some interference in shrimp and fish) - 0.3 ppb

Crossreaction rate: SEM 100%, AHD <0.1%, AMOZ <0.1%, AOZ <0.1%

Sample processing time: honey, fish, shrimp, chicken (liver) – 16 h.

Detection time: 80 min.

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