

Product information

Product name: Diazepam ELISA-Test Kit

Product number: ED-1

General Description: Diazepam is a benzodiazepine tranquilizer. Drugs in this class act directly on the brain and are central nervous system (CNS) depressants. It can also be used as an appetite stimulant. Diazepam is used clinically for sedation, to diminish anxiety or modify behavior, as a muscle relaxant, an anticonvulsant, and in some species as an appetite stimulant. Diazepam is metabolized by the liver to nordiazepam and other active metabolites. They are excreted in the urine.

Principle: The GreenSpring™ Diazepam ELISA Test Kit is based on the competitive enzyme immunoassay for the detection of Diazepam in the feed, urine, liver, meat. The coupling antigen is pre-coated on the micro-well stripes. The Diazepam in the sample and the coupling antigen pre-coated on the micro-well stripes compete for the anti-Diazepam antibodies. After the addition of the enzyme conjugate, the TMB substrate is added for coloration. The optical density (OD) value of the sample has a negative correlation with the Diazepam in it. This value is compared to the standard curve and the Diazepam concentration is subsequently obtained.

Specifications

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

Sensitivity: 0.1 ppb

Detection limit: tissue and urine – 0.1 ppb; feed – 20 ppb

Crossreaction rate: diazepam – 100%, nitrazepam – 7.6%, oxazepam – 8.8%

Sample processing time: tissue, urine and feed – 30 min

Detection time: 80 min.

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