

Cattle AchE (Acetylcholinesterase) ELISA Kit | AchE elisa kit

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CATALOG #
AAA277214

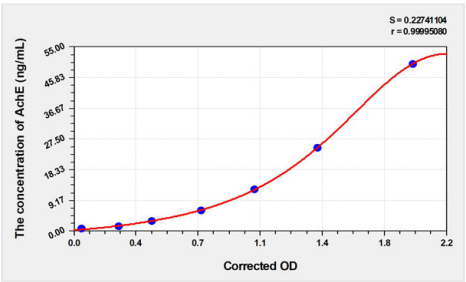
REACTIVITY
Cattle

PRODUCT SYNONYMS

AchE (Acetylcholinesterase); Cattle AchE (Acetylcholinesterase) ELISA Kit; ARACHe; N-AChE; YT; AchE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Cattle
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates and other biological fluids
Detection Range	0.78-50ng/mL
Sensitivity	0.31ng/mL
Standard	50ng/mL
Assay Length	3.5h
Precision	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision. Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Acetylcholinesterase (AchE). Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Acetylcholinesterase (AchE). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Acetylcholinesterase (AchE), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 10 nm. The concentration of Acetylcholinesterase (AchE) in the samples is then determined by comparing the OD of the samples to the standard curve.
Standard Curve	Matrices listed below were spiked with certain level of recombinant AchE and the recovery rates were calculated by comparing the measured value to the expected amount of AchE in samples. Matrix Recovery range Averageserum (n=5)95-103%99EDTA plasma (n=5)92-102%97Heparin plasma (n=5)81-95%88
Recovery Rate	The linearity of the kit was assayed by testing samples spiked with appropriate concentration of AchE and their serial dilutions. The results were demonstrated by the percentage of calculated concentration to the expected. Matrix 1:21:41:81:16serum (n=5)93-105%85-97%90-99%82-101%EDTA plasma (n=5)82-94%85-96%78-90%91-99%Heparin plasma (n=5)82-96%85-98%95-104%82-96%



Standard Curve (Sample)

ADDITIONAL INFORMATION

Product Categories/Family for AchE
elisa kit

Signal transduction; Enzyme & Kinase; Metabolic pathway; Hematology; Neuro science

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/cat-cattle-elisa-kits/ache-acetylcholinesterase/277214>