Rat 5-HT(5-Hydroxytryptamine) ELISA Kit

Description

Product Name	Rat 5-HT(5-Hydroxytryptamine) ELISA Kit
Catalogue No.	4598ELK
Alternative Names:	5HT; Serotonin; N-Methyl-Gamma
Assay Type	Competitive Inhibition
Sensitivity	3.97 ng/mL
Range	14.07-900 ng/mL
Sample Type	serum, plasma, tissue homogenates
Assay Length	2h
Research Area	Signal transduction;Infection immunity;Neuro science;Gastroenterology;
Test principle	This assay employs the competitive inhibition enzyme immunoassay tech provided in this kit has been pre-coated with 5-Hydroxytryptamine(5-HT) samples are added to the appropriate microtiter plate wells then with a bi specific to 5-Hydroxytryptamine(5-HT). Next,Avidin conjugated to Horsera added to each microplate well and incubated. After TMB substrate solutio substrate reaction is terminated by the addition of sulphuric acid solution measured spectrophotometrically at a wavelength of 450nm Â± 10nm. Th Hydroxytryptamine(5-HT) in the samples is then determined by comparin the standard curve.

Standard Curve	CONCENTRATION (NG/ML)	OD	
	900.00	0.232	â€”
	450.00	0.397	â€”
	225.00	0.557	â€”
	112.50	0.993	â€”
	56.25	1.197	â€”
	28.13	1.596	â€”
	14.07	1.871	â€”
	0.00	2.101	â€”

Image not found or type unknown

Precision

Intra-assay Precision (Precision within an assay)ï¼šCV%<8%

Three samples of known concentration were tested twenty times on one
precision.

Inter-assay Precision (Precision between assays)ï¼šCV%<10%

Three samples of known concentration were tested in forty separate assa
precision.

Recovery

Matrices listed below were spiked with certain level of recombinant 5-HT
calculated by comparing the measured value to the expected amount of 5

MATRIX	RECOVERY RANGE
serum(n=5)	80-93%
EDTA plasma(n=5)	94-105%
Heparin plasma(n=5)	95-107%

Linearity

The linearity of the kit was assayed by testing samples spiked with appro
and their serial dilutions. The results were demonstrated by the percenta
to the expected.

MATRIX	1:2	1:4	
serum(n=5)	79-94%	87-96%	98-
EDTA plasma(n=5)	95-102%	93-101%	97-
Heparin plasma(n=5)	78-96%	86-92%	84-

Note

For Research Use Only

Date Created

2024/07/03