

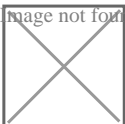
## Rat 5-HT(5-Hydroxytryptamine) ELISA Kit

### 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 technique. The microplate 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 biotinylated 5-HT specific antibody. Next,Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, the substrate reaction is terminated by the addition of sulphuric acid solution. The absorbance is measured spectrophotometrically at a wavelength of 450nm $\pm$ 10nm. The concentration of 5-Hydroxytryptamine(5-HT) in the samples is then determined by comparing the absorbance with the 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€”
Standard Curve	28.13	1.596	â€”
	14.07	1.871	â€”
	0.00	2.101	â€”

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Precision	Intra-assay Precision (Precision within an assay)CV% $\leq$ 8%																			
	Three samples of known concentration were tested twenty times on one precision.																			
	Inter-assay Precision (Precision between assays)CV% $\leq$ 10%																			
Recovery	Three samples of known concentration were tested in forty separate assays for precision.																			
	Matrices listed below were spiked with certain level of recombinant 5-HT and the recovery was calculated by comparing the measured value to the expected amount of 5-HT.																			
	<table><tr><th>MATRIX</th><th colspan="3">RECOVERY RANGE</th></tr><tr><td>serum(n=5)</td><td colspan="3">80-93%</td></tr><tr><td>EDTA plasma(n=5)</td><td colspan="3">94-105%</td></tr><tr><td>Heparin plasma(n=5)</td><td colspan="3">95-107%</td></tr></table>				MATRIX	RECOVERY RANGE			serum(n=5)	80-93%			EDTA plasma(n=5)	94-105%			Heparin plasma(n=5)	95-107%		
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Linearity	The linearity of the kit was assayed by testing samples spiked with appropriate concentrations and their serial dilutions. The results were demonstrated by the percentage recovery to the expected.																			
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Note	For Research Use Only																			
Date Created																				
2024/07/03																				