Arg(Arginine) ELISA Kit

Description

Alternative Names:	(S)-2-Amino-5-Guanidinopentanoic Acid
Catalogue No.	7925ELK
Size	96T
Reactivity	General
Range	1.57-100 Î¼g/mL
Sensitivity	0.51 Î¼g/mL
Assay Type	Competitive Inhibition
Sample Type	serum, plasma, tissue homogenates and other biological fluids
Assay Length	2h
Research Area	Metabolic pathway; Nutrition metabolism;
Test principle	This assay employs the competitive inhibition enzyme immunoassay tech provided in this kit has been pre-coated with Arginine(Arg) protein. Stand the appropriate microtiter plate wells then with a biotin-conjugated antibo Next,Avidin conjugated to Horseradish Peroxidase (HRP) is added to eac incubated. After TMB substrate solution is added. The enzyme-substrate addition of sulphuric acid solution and the color change is measured spec wavelength of 450nm Â± 10nm. The concentration of Arginine(Arg) in the by comparing the OD of the samples to the standard curve.

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Standard Curve

CONCENTRATION (NG/ML)	OD	
100.00	0.175	â€”
50.00	0.352	â€”
25.00	0.621	â€”
12.50	0.861	â€”
6.25	1.152	â€”
3.13	1.565	â€”
1.57	1.775	â€”
0.00	2.115	â€”

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 Arg a calculated by comparing the measured value to the expected amount of A

MATRIX	RECOVERY RANGE
serum(n=5)	78-92%
EDTA plasma(n=5)	78-90%
Heparin plasma(n=5)	85-99%

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)	87-98%	92-101%
EDTA plasma(n=5)	95-104%	93-102%
Heparin plasma(n=5)	85-92%	87-101%

Note: For Research Use Only

Date Created
2024/07/03