

Arg(Arginine) ELISA Kit

Description

Test principle

Alternative Names: (S)-2-Amino-5-Guanidinopentanoic Acid

Catalogue No. 7925ELK

Size 96T

Reactivity General

1.57-100 μg/mL Range 0.51 μg/mL Sensitivity

Competitive Inhibition Assay Type

Sample Type serum, plasma, tissue homogenates and other biological fluids

2h Assay Length

Research Area Metabolic pathway; Nutrition metabolism;

> This assay employs the competitive inhibition enzyme immunoassay tecl 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 each

> incubated. After TMB substrate solution is added. The enzyme-substrate

addition of sulphuric acid solution and the color change is measured spewavelength of 450nm ± 10nm. The concentration of Arginine(Arg) in the

by comparing the OD of the samples to the standard curve.

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		CONCENTRATION (NG/ML)	OD	
Standard Curve	100.00		0.175	—
	50.00		0.352	—
	25.00		0.621	—
	12.50		0.861	—
	6.25		1.152	—
	3.13		1.565	—
	1.57		1.775	—
	0.00		2.115	—



2024/07/03

	Intra-assay Precision (Precision within an assay):CV%<8%			
Precision	Three samples of known concentration were tested twenty times on one precision.			
	Inter-assay Precision (Precision between assays):CV%<10%			
	Three samples of known concentration were tested in forty separate ass 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			
	MATRIX	RECOVERY RANGE		
	serum(n=5)	78-92%		
	EDTA plasma(n=5)	78-90%		
	Heparin plasma(n=5)	85-99%		
	The linearity of the kit was assayed by testing samples spiked with approand their serial dilutions. The results were demonstrated by the percenta to the expected.			

Linearity

MATRIX

1:2

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**