



Human L-Carnitine ELISA Kit

Product Code	CSB-E13606h
Abbreviation	L-Carnitine
Target Name	L-Carnitine
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, urine, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Biochemicals
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human L-Carnitine ELISA Kit was designed for the quantitative measurement of Human L-Carnitine protein in serum, plasma, urine, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%
 Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%
 Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human L-Carnitine in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:200	Average %	88
	Range %	80-96
1:400	Average %	97
	Range %	91-105



1:800	Average %	99
	Range %	92-110
1:1600	Average %	100
	Range %	90-110

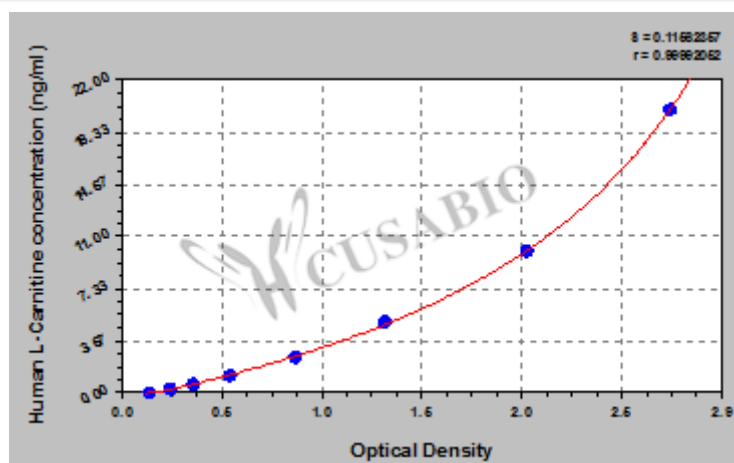
Recovery

The recovery of human L-Carnitine spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Serum (n=5)	93	82-110
EDTA plasma (n=4)	97	90-110

Sample Type Average % Recovery Range

Typical



These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.

ng/ml	OD1	OD2	Average	Corrected
20	2.749	2.639	2.694	2.543
10	2.010	1.976	1.993	1.842
5	1.303	1.294	1.299	1.148
2.5	0.889	0.839	0.864	0.713
1.25	0.561	0.524	0.543	0.392
0.625	0.371	0.359	0.365	0.214



0.312	0.256	0.239	0.248	0.097
0	0.155	0.147	0.151	?

Msd

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E13606h.pdf","filename":"MSDS"}}