abcam

Product datasheet

L-Amino Acid Assay Kit ab65347

22 References 3 Images

Overview

Product name	L-Amino Acid Assay Kit
Detection method	Colorimetric/Fluorometric
Sample type	Cell culture supernatant, Urine, Serum, Plasma, Other biological fluids, Tissue Extracts
Assay type	Quantitative
Sensitivity	<= 40 µM
Assay time	0h 30m
Product overview	L-Amino Acid Assay Kit ab65347 is used measure the level of L-amino acids in biological samples. There is no requirement for sample pretreatment or purification. The L-amino acid(s) level can be quantified using fluorometric (at Ex/Em = 535/587 nm) or colorimetric (at λ = 570 nm) methods in 96-well plates. Amino acid assay protocol summary: - add reaction mix to sample and standard wells - incubate for 30 min - analyze with microplate reader
Notes	This product is manufactured by BioVision, an Abcam company and was previously called K639 L-Amino Acid Quantitation Colorimetric/Fluorometric Kit. K639-100 is the same size as the 100 test size of ab65347. L-Amino acids are the most essential elements in biology. Accurately quantitating L-amino acids in body fluids or purified samples may provide valuable information for diagnostic or basic research studies.
Platform	Microplate reader

Properties

Storage instructions	Store at -20°C. Please refer to protocols.

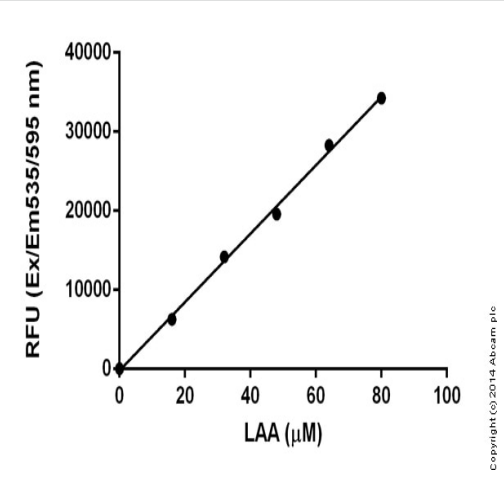
Components	100 tests
Assay Buffer II	1 x 25ml

Components	100 tests
L-Amino Acid Enzyme Mix	1 vial
L-Amino Acid Standard	1 x 300µl
OxiRed Probe	1 x 0.2ml

Relevance

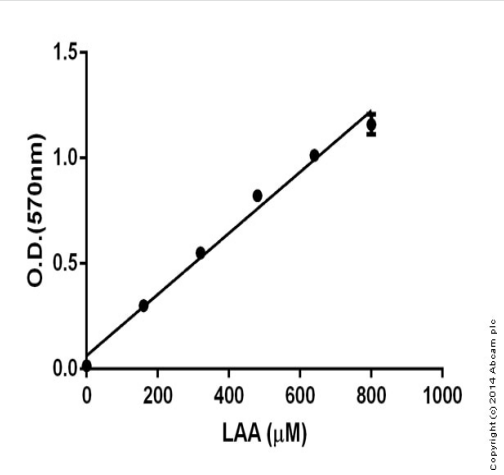
Amino acids perform various important functions for the body and serve as the materials for the body's cells, hormones, and enzymes. Of the standard amino acids, all but glycine can exist in either of the two optical isomers, called D and L enantiomers, which are mirror images of each other. The L-amino acids represent the vast majority of amino acids found in proteins during translation in the ribosome, and are therefore the most essential element in biology and metabolic functions.

Images



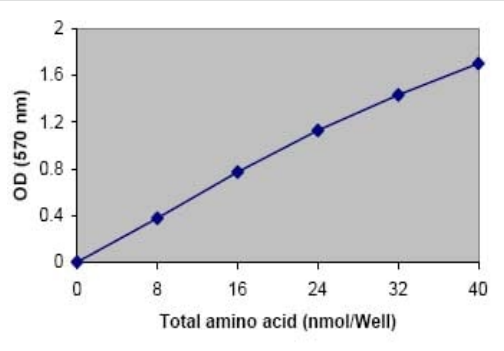
Functional studies - L-Amino Acid Assay Kit (ab65347)

Standard curve (fluorimetrical): mean of duplicates (+/-) with background subtracted



Functional studies - L-Amino Acid Assay Kit (ab65347)

Standard curve (colorimetrical): mean of duplicates (+/-SD) with background readings subtracted



Functional Studies - L-Amino Acid Assay Kit (ab65347)

L-Amino Acid Standard Curve.

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