

Vitamin C (VC) Colorimetric Assay Kit

Cat No: HR3BC1219

For research use only

Overview

Detection Method	Colorimetric method
Storage	2-8?
Instrument	Microplate reader(530-540 nm,optimum wavelength: 536 nm)
Assay Time	50min
Validity	6
Assay Type	Quantitative
Sample Type	Serum,plasma,tissue
Synonyms	VC,Ascorbic acid
Instrument	Microplate reader(530-540 nm,optimum wavelength: 536 nm)
Detection Principle	The most obvious chemical activity of VC is that reduce Fe^{3+} to Fe^{2+} , then promote iron absorption in the intestine, promote the storage and utilization of iron. Fe^{3+} react immediately with reducing ascorbic acid to form Fe^{2+} . then Fe^{2+} react with phenanthroline and the color developing reaction occurs. The content of vitamin C in sample can be determined. Measure the OD value and calculate the VC content indirectly.
Reagents	Normal saline (0.9% NaCl), PBS (0.01 M, pH 7.4), Absolute ethanol
Labware	Micropipettor, Centrifuge, Incubator, Vortex mixer
Size	96T
Sensitivity	0.31 ?g/mL
Detection Range	0.31-20 ?g/mL
Recovery Rate	108