

## Vitamin C (VC) Colorimetric Assay Kit

Cat No: HR3BC1122

For research use only

### Overview

Detection Method	Colorimetric method
Storage	2-8?
Instrument	Spectrophotometer(533 nm)
Assay Time	80 min
Validity	6
Assay Type	Quantitative
Sample Type	Serum,plasma,tissue
Synonyms	VC,Ascorbic acid
Instrument	Spectrophotometer(533 nm)
Detection Principle	The most obvious chemical activity of VC is that reduce Fe <sup>3+</sup> to Fe <sup>2+</sup> , then promote iron absorption in the intestine, promote the storage and utilization of iron. Fe <sup>3+</sup> react immediately with reducing ascorbic acid to form Fe <sup>2+</sup> . then Fe <sup>2+</sup> 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) or PBS (0.01 M, pH 7.4), Absolute ethanol
Labware	Micropipettor, Vortex mixer, Incubator, Centrifuge
Size	100Assays
Sensitivity	0.35 ?g/mL
Detection Range	0.35-20 ?g/mL
Recovery Rate	104