

Ascorbic Acid / Total Ascorbic Acid Assay kit

Ascorbic acid (AsA) is a kind of coenzyme, free radical scavenger, electron acceptor and substrate of oxalate and tartrate biosynthesis. As the most important antioxidant in plant cells, AsA plays an important role in protecting chloroplasts from oxidative damage, and is also one of the important indicators to measure the quality of crop products. Dehydroascorbic acid (DHA) is a reversible oxidation type of AsA. In vivo, it forms a redox system with ascorbic acid and has the function of electron acceptor. AsA is reductive and can reduce Fe^{3+} to Fe^{2+} . Fe^{2+} and 2,2'-bipyridine form a pink complex with a characteristic absorption peak at 525 nm. DTT can reduce DHA to produce AsA, which can be used to detect the content of total ascorbic acid (AsA+DHA) in samples.

Catalog No.	250463
Size	50 Assays / 100 Assays
Product Category	Colorimetric Assay
Detection Method	Spectrophotometry / Micro-Plate Reader
Storage/Stability	-20°C/6 months
Shipping	Gel Packs