

Citrate Assay Kit

Catalogue No.: abx295104

Citrate Assay Kit is an assay kit for the detection and quantification of Citrate concentrations in tissue homogenates, mitochondria and other biological fluids using a spectrophotometer. In biochemistry, citric acid is an intermediate in the citric acid cycle and plays an important role in metabolism. Citrate levels in blood and urine are affected by factors such as age, gender, diet, citric acid precursors, and parathyroid hormone and sex hormones. In acidic conditions, Cr(VI) is reduced to Cr³⁺, which reacts with citric acid. The reaction product has a characteristic absorption peak at 545 nm, and therefore the content of citric acid in sample can be calculated by measuring the absorbance value at 545 nm.

Target: Citrate**Storage:** Shipped at 4°C. Upon receipt, store the kit according to the storage instruction in the kit's manual.**Shelf Life:** The validity for this kit is 12 months.**Test Range:** 0.05 mmol/L - 5 mmol/L**Sensitivity:** 0.05 mmol/L**Detection Method:** Colorimetric**Assay Data:** Quantitative**Sample Type:** Tissue homogenates, mitochondria and other biological fluids.**Note:** THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.