

Formate Colorimetric Assay Kit

Cat No: HR3BC1283

For research use only

Overview

Detection Method	Colorimetric method
Storage	-20?
Instrument	Microplate reader (450 nm)
Assay Time	70 min
Validity	6
Assay Type	Quantitative
Sample Type	Serum, plasma, animal tissue
Synonyms	
Instrument	Microplate reader (450 nm)
Detection Principle	Formic acid is the simplest carboxylic acid, whose chemical formula is CH_2O_2 . It is often used as an antimicrobial/preservative in livestock feed. Formic acid can block some of the decay processes in feed, making the nutritional value of feed maintain longer. Under normal circumstances, the physiological concentration of formic acid is low and easy to metabolize, but in the case of methanol poisoning, the concentration can reach 5 mmol/L. Similarly, long-term exposure to excessive levels of formaldehyde can also increase the content of formic acid in blood and urine.
Reagents	
Labware	Pipettor, Water bath, Centrifuge
Size	96T
Sensitivity	8.20 $\mu\text{mol/L}$
Detection Range	8.20-800 $\mu\text{mol/L}$
Recovery Rate	100