

Glycogen Colorimetric Assay Kit (Liver/Muscle Samples)

Cat No: HR3BC1131

For research use only

Overview

Detection Method	Colorimetric method
Storage	2-8?
Instrument	Spectrophotometer(620 nm)
Assay Time	50 min
Validity	6
Assay Type	Quantitative
Sample Type	Animal liver,muscle
Synonyms	
Instrument	Spectrophotometer(620 nm)
Detection Principle	Under the presence of concentrated sulfuric acid, glycogen can be dehydrated to furfural derivatives. Furfural derivatives can form blue compound with anthracenone. The concentration of the compound can be measured by colorimetric quantification at 620 nm with glucose standard buffer of same treatment. Glycogen is quite stable in concentrated alkali solution. Heating the tissue sample in concentrated alkali solution before color development will remove other components and keep the glycogen.
Reagents	Normal saline (0.9% NaCl), Concentrated sulfuric acid
Labware	Micropipettor, Incubator, Vortex mixer, Centrifuge
Size	100Assays
Sensitivity	1.80 mg/g liver tiss
Detection Range	1.80-180 mg/g liver
Recovery Rate	101