

Glucose Uptake Fluorometric Assay Kit

Cat No: HR3BC1289

For research use only

Overview

Detection Method	Fluorescence method
Storage	-20?
Instrument	Fluorescence microplate reader (Ex/Em=530 nm/590 nm)
Assay Time	100 min
Validity	6
Assay Type	Quantitative
Sample Type	cells
Synonyms	
Instrument	Fluorescence microplate reader (Ex/Em=530 nm/590 nm)
Detection Principle	2-DG is up-taken by the cells, converted to 2-DG-6P, which is catalyzed by glucose dehydrogenase to produce 6PDG. Meanwhile, NADP+ is converted to NADPH. The generated NADPH converts the probe into fluorescent substances under the action of myocardial yellow transferase. The glucose uptake can be calculated by measuring the fluorescence intensity at the excitation wavelength of 530 nm and the emission wavelength of 590 nm.
Reagents	KRPH solution (20 mM Hepes, 5 mM KH ₂ PO ₄ , 1 mM MgSO ₄ , 1 mM CaCl ₂ , 136 mM NaCl, 4.7 mM KCl, 2% BSA, pH 7.4)
Labware	Micropipettor, Incubator, Water bath
Size	96T
Sensitivity	0.02 nmol/?L
Detection Range	0.02-0.5 nmol/?L
Recovery Rate	