Lactate Assay Kit

Cat. No. Kit-0498 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Lactate Assay Kit is used for detecting L(+)-Lactate.
Description	Abnormal high concentration of lactate has been related to disease states such as diabetes and lactate acidosis, etc. L(+)-Lactate is the major stereo-isomer of lactate formed in human intermediary metabolism and is present in blood. D(-)-Lactate is also present but only at about 1-5% of the concentration of L(+)-Lactate. In the Lactate Assay Kit, lactate specifically reacts with an enzyme mix to generate a product, which interacts with lactate probe to produce color (OD 570 nm) and fluorescence (Ex/Em = 535/587 nm). The kit provides a convenient means for detecting L (+)-Lactate in biological samples such as in blood circulation, in cells, in culture mediums, in fermentation mediums, etc. There is no need of pretreatment or purification of samples.The kit can detect 0.001-10 mM of Lactate in various samples. We recommend to use clear 96 well plate for both colorimetric and fluorometric assay.
Applications	Measurement of Lactate in various biological samplesAnalysis of metabolism in various cellsDiabetes research
Target Species	Mammals
Usage	For research use only (RUO)
Storage	Store kit at -20°C, protected from light.
Kit Components	Lactate Assay Buffer 25 mLLactate Probe (in DMSO, anhydrous) 200 µLLactate Enzyme Mix (lyophilized) 1 vialL(+)-Lactate Standard (100

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	nmol/μL) 100 μL
Detection method	Colorimetric, Fluorometric
Compatible Sample Types	Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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