

D-Lactate Colorimetric Assay Kit

Cat. No. Kit-0291 Lot. No. (See product label)

SPECIFICATION

Product Overview	D-Lactate Assay Kit (Colorimetric) is used for measuring D-lactate.
Description	D-Lactate production in mammals, mainly due to the glyoxalase pathway, is extremely low, with normal serum concentrations in the nano to micromolar range. Typically, elevated D-lactate levels which can rise to millimolar levels, are due to bacterial infection or short bowel syndrome in humans. Abnormally high concentrations of D-lactate are considered indicative of sepsis, ischemia or trauma. Due to slow metabolism and excretion, high D-lactate can cause acidosis and encephalopathy. The D-Lactate Assay Kit (Colorimetric) provides a fast, easy way to accurately measure D-lactate in a variety of biological samples. In the D-Lactate Assay Kit, D-lactate is specifically oxidized by D-lactate dehydrogenase and generates proportional color ($\lambda_{\text{max}} = 450 \text{ nm}$). The kit detects D-Lactate in samples such as serum, plasma, cells, culture and fermentation media. The useful concentration range in samples is 0.01 mM – 10 mM D-lactate.
Target Species	Mammals
Usage	For research use only (RUO)
Storage	Store the kit at -20°C.
Kit Components	D-Lactate Assay Buffer 25 mlD-Lactate Enzyme Mix: lyophilized 1 vialD-Lactate Substrate Mix: lyophilized 1 vialD-Lactate Standard (100 mM) 100 μ
Detection method	Colorimetric

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**Compatible Sample
Types**

Biological Fluid, Cell Culture Supernatant, Fermentation Medium, Plasma, Serum,
Tissue Culture Supernatant, Urine

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