

D-Gluconate (D-Gluconic Acid) Colorimetric Assay Kit

Cat. No. Kit-2157 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	D-Gluconate (Gluconic Acid) Assay kit is a sensitive, fast and easy-to-use kit. In this assay, Gluconate is utilized by Gluconokinase to form D-Gluconate-6-P and ADP, which subsequently undergoes a series of reactions to form an intermediate that reduces Gluconate probe to give a product with strong absorbance at 450 nm. This assay kit can detect D-Gluconate (D-Gluconic Acid) level less than 2 μ M in a variety of samples.
Size	100 assays
Description	D-Gluconic acid (C ₆ H ₁₂ O ₇) is a mild organic acid that is produced from glucose by glucose oxidase. It is abundantly present in plants, fruits and animal tissues. D-Gluconate (C ₆ H ₁₁ O ₇) is the salt or ester of Gluconic Acid. Due to its low toxicity, it is widely used in pharmaceutical, food, and other industries.
Applications	Measurement of D-Gluconate (D-Gluconic Acid) in various samples such as tissues, plants, fruits and wine
Storage	Store kit at -20°C, protect from light. Briefly centrifuge small vials prior to opening. Read entire protocol before performing the assay. Gluconate Assay Buffer: Warm to room temperature before use. Gluconate Converter, Gluconate Enzyme Mix, and Gluconate Developer: Reconstitute each with 220 μ l Assay Buffer. Pipette up and down to dissolve completely. Aliquot and store at -20°C. Avoid repeated freeze/thaw. Keep on ice while in use. Use within two months. ATP and Gluconate Probe: Reconstitute with 220 μ l dH ₂ O. Pipette up and down to completely dissolve. Store at -

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	20°C. Use within two months. Gluconate Standard: Reconstitute with 100 µl dH ₂ O to generate 100 mM (100 nmol/µl) Standard solution. Store at -20°C. Use within two months. Keep on ice while in use.
Kit Components	Gluconate Assay Buffer: 25 ml Gluconate Converter: 1 vial ATP: 1 vial Gluconate Enzyme Mix: 1 vial Gluconate Developer: 1 vial Gluconate Probe: 1 vial Gluconate Standard: 1 vial
Detection method	Absorbance (450 nm)
Compatible Sample Types	<ul style="list-style-type: none"> • Animal tissues (e.g. muscle etc.) • Wine (e.g. red wine and white wine) • Fruits (e.g. orange, apple etc.)
Features & Benefits	<ul style="list-style-type: none"> • Rapid & Easy-to-use • Can measure D-Gluconate lower than 2 µM in a variety of samples