

D-Glucose GOD-POD Colorimetric Assay Kit

Cat. No. Kit-2057 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Simple colorimetric method for the determination of D-Glucose. Based on the combined action of Glucose oxidase (GOD) and Peroxidase (POD).
Size	660 tests
Description	D-Glucose occurs widely in plants and animals. It is an essential component of carbohydrate metabolism and occurs frequently in the free form along with D-fructose and sucrose. However, the more important forms are those of di- (lactose, maltose, sucrose), tri-, oligo- and polysaccharides (dextrins, starch, cellulose). It is present in significant quantities in honey, wine and beer, and a range of solid foodstuffs such as bread and pastries, chocolate and candies. Measurement of D-glucose is extremely important in biochemistry and clinical analysis, as well as in food analysis; it is mostly determined along with other carbohydrates.
Applications	This rapid and simple enzymatic colorimetric method is used for the quantitative determination of D-glucose in foodstuffs such as baking agents, diet beer and dietetic foods, as well as in pharmaceuticals, cosmetics and biological samples. The analysis of D-glucose in foodstuffs is normally performed in conjunction with D-fructose, maltose and sucrose.
Kit Components	Solution 1 (×2). GOD-POD reagent buffer (30 mL, pH 7.4), 0.42 M Potassium fosfate, 0.35 M p-hydroxybenzoic acid and sodium azide (0.64% w/v) as a preservative. Stable for 3 years at 4 °C. Dilute the contents of bottle to 1 L with distilled water and use immediately. Solution 2 (×2). GOD-POD reagent enzymes. Freeze-dried powder

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of glucose oxidase (GOD; >12,000 U), peroxidase (POD; >650 U) and 4-aminoantipyrine (80 mg). Stable for 5 years at -20 °C. Dissolve the contents of bottle 2 in approx. 20 mL of solution 1 and quantitatively transfer this to the bottle containing the remainder of solution 1. Cover this bottle with aluminum foil to protect the enclosed reagent from light. Stable for 3 months at 2-5 °C or 12 months at -20 °C. Solution 3. D-Glucose standard solution (5 mL, 1.0 mg/mL) in 0.2% (w/v) benzoic acid. Stable for 5 years at room temperature.

Detection method	Colorimetric method
Compatible Sample Types	Wine, vinegar, fruit and vegetable products, bakery products, tobacco and paper, cosmetic, pharmaceutical, biological cultures and biological samples.
Features & Benefits	Simple colorimetric methodStable reagents
Sensitivity	Reaction volume: 3.10 mLRange: 100-1000 mg/LDetection limit: 100 mg/L