CREATIVE BIOMART®
Assay Kit

Soluble Starch Synthase (SSS) Activity Assay Kit

Product Information

Product Overview

Significance: Soluble starch synthase (SSS, EC 2.4.1.21) is typically present in the plastid stroma in a soluble form and catalyzes starch chain elongation, primarily contributing to amylopectin synthesis. Principle: SSS catalyzes the transfer of glucose from ADP-glucose (ADPG) to a starch primer (glucan), producing ADP. In the presence of pyruvate kinase, hexokinase, and glucose-6-phosphate dehydrogenase, NADP⁺ is sequentially reduced to NADPH. The amount of NADPH formed is proportional to ADP production. SSS activity is calculated by measuring the increase in NADPH absorbance at 340 nm.

Size

50t/48s

Storage

Store at -20 °C. Shelf life: 6 months.

Detection method Ultraviolet Spectrophotometry

Materials Required but Not Supplied

UV spectrophotometer, water bath, benchtop centrifuge, pipettes, 1 mL quartz cuvettes, mortar, ice, and distilled water.

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