CREATIVE BIOMART®
Assay Kit

Granule-Bound Starch Synthase (GBSS) Activity Assay Kit

Product Information

Product Overview

Granule-bound starch synthase (GBSS, EC 2.4.1.21) is bound within starch granules and catalyzes starch chain elongation, playing a primary role in amylose synthesis.
GBSS catalyzes glucose transfer from ADP-glucose to starch primers, generating ADP. Pyruvate kinase, hexokinase, and glucose-6-phosphate dehydrogenase subsequently catalyze NADP⁺ reduction to NADPH. NADPH formation at 340 nm is proportional to GBSS activity.

Size

100t/96s

Storage

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

Synonyms

GBSS Kit

Detection method Spectrophotometer/Microplate Reader

Technical Notes

For measurements using a 96-well plate, a 96-well UV plate must be used.

Materials Required but Not Supplied

UV spectrophotometer or microplate reader, water bath, benchtop centrifuge, adjustable pipettes, micro quartz cuvettes or 96-well plates, mortar, ice, distilled water.

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