

Sucrose Phosphate Synthase (SPS) Assay Kit | SPS assay kit

Micro Sucrose Phosphate Synthase (SPS) Activity Assay Kit

CATALOG #
AAA332713

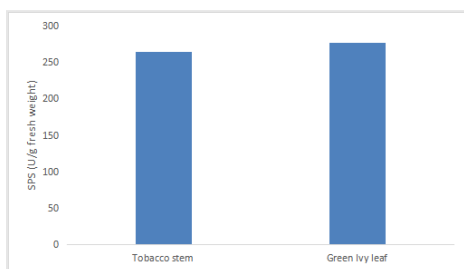
PRODUCT SYNONYMS

Sucrose Phosphate Synthase (SPS); Micro Sucrose Phosphate Synthase (SPS) Activity Assay Kit; SPS assay kit

PRODUCT SPECIFICATIONS

Samples	Plant tissues
Kit Components	Extraction Buffer Reagent I Reagent II Reagent III Reagent IV Standard
Features & Benefits	The verified samples are complete in type and easy to operate.
Usage Notes	If not assayed immediately, samples can be stored at -80 degree C for one month. It is recommended to perform several dilutions of your sample to ensure the readings are within the standard value range. Fresh samples are necessary for good results. If don't perform the assay at the same time, it's better to complete the Sample Preparation step before storing the samples.
Preparation and Storage	Storage at -20 degree C and Keep from light immediately upon receipt. Kit has a storage time of 6 months from receipt. Refer to list of materials supplied for storage conditions of individual components. Shipping: Gel pack with blue ice.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for SPS assay kit

Sucrose is not only an important photosynthetic product but also the primary substance transported within plants and serves as a form of carbohydrate storage. Sucrose phosphate synthase (SPS, EC 2.4.1.14) uses fructose-6-phosphate as a receptor, and the formed sucrose-6-phosphate is converted into sucrose by sucrose phosphate phosphatase. The SPS-sucrose phosphate phosphatase system is generally considered the main pathway for sucrose synthesis. Micro Sucrose Phosphate Synthase (SPS) Activity Assay Kit provides a simple, convenient, and rapid method for detecting SPS activity, suitable for plant tissue samples. The principle involves SPS catalyzing the formation of sucrose-6-phosphate from fructose-6-phosphate. Sucrose-6-phosphate reacts with resorcinol to produce a color change, exhibiting a characteristic absorption peak at 480 nm, with the intensity of the color being proportional to the level of enzyme activity.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/assay-kits/sucrose-phosphate-synthase-sps/332713>