

Carotenoid Assay Kit

Micro Carotenoid Content Assay Kit

CATALOG #
AAA332705

PRODUCT SYNONYMS

Carotenoid; Micro Carotenoid Content Assay Kit; Carotenoid assay kit

PRODUCT SPECIFICATIONS

Samples	Plant tissues
Kit Components	Extraction Buffer Reagent I
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 4 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.

ADDITIONAL INFORMATION

Related Product Information for Carotenoid assay kit	Carotenoids are lipid-soluble compounds with nutritional properties that provide natural pigments to plants and animals. They are important antioxidants and have the ability to convert into essential vitamins. Carotenoids can prevent damage to cells, tissues, and genes, enhance the body's immune system, resist infections, reduce the risk of cancer, and protect the heart. Micro Carotenoid Content Assay Kit provides a simple, convenient, and rapid method for measuring carotenoid content, suitable for plant tissue samples. The principle involves carotenoids in plants are found in various yellow plastids or chromoplasts, such as in yellow leaves, yellow flowers, yellow and red fruits, and yellow roots. Samples are extracted using solvents to separate and extract carotenoids. Carotenoids have a specific absorption peak at 440+/-10 nm. In higher plants and algal microorganisms, chloroplasts also contain carotenoids. Carotenoids primarily absorb blue and violet light, while chlorophyll a and b absorb both red and blue-violet light. Therefore, for tissues containing chloroplasts, to exclude the interference from chlorophyll a and b on carotenoids, the content of chlorophyll a and b is first calculated using empirical formulas. Then, the carotenoid content is determined. For tissues without chlorophyll, the carotenoid content can be directly calculated using the empirical extinction coefficient of carotenoids.
Product Categories/Family for Carotenoid assay kit	Cell analysis; Cell metabolism detection kit

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://stage.aaabiotech.com/assay-kits/carotenoid/332705>