

## Sucrose Assay Kit

Catalogue No.: abx298802

Sucrose Assay Kit is an assay kit designed for the detection and quantification of Sucrose concentrations in plant tissue using a spectrophotometer. Sucrose in plant tissue is hydrolyzed to glucose and fructose under acidic and heat conditions. 5-hydroxymethylfurfural can be synthesized from fructose under acid conditions, the concentration of which can be determined by measuring the ultraviolet absorption of 5-hydroxymethyl furfural. Glucose must be dissimilated into ketose structure and reduced to obtain 5-hydroxymethylfurfural, but the rate of isomerization of glucose to ketose is very slow. Therefore, the ultraviolet absorption corresponding to glucose is much smaller than fructose.

**Target:** Sucrose**Reactivity:** General**Storage:** Shipped at 4 °C. Upon receipt, store the kit according to the storage instruction in the kit's manual.**Validity:** The validity for this kit is 12 months.**Test Range:** 0.32 µmol/ml - 70 µmol/ml**Sensitivity:** 0.32 µmol/ml**Detection Method:** Colorimetric**Assay Data:** Quantitative**Sample Type:** Plant tissue.**CAS Number:** 57-50-1**Note:** THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.