

alpha-Amylase Assay Kit

alpha-Amylase Activity Assay Kit

CATALOG #
AAA177780

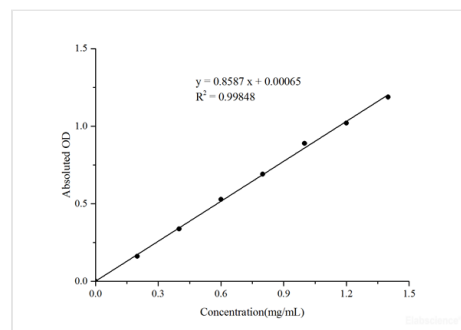
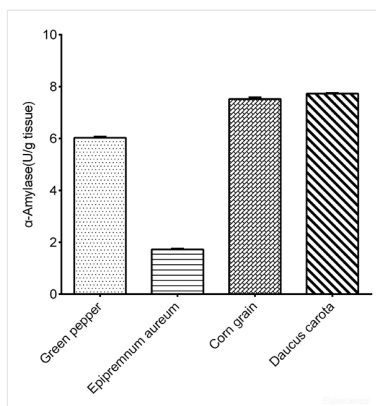
PRODUCT SYNONYMS

alpha-Amylase; alpha-Amylase Activity Assay Kit; alpha-Amylase assay kit

PRODUCT SPECIFICATIONS

Samples	Animal and plant tis sue samples
Detection Range	0.97-34.74 U/g tissue
Sensitivity	0.97 U/g tissue
Preparation and Storage	Store at 2-8 degree C. Valid for 12 months

IMAGES



Standard Curve (Sample)

Application Data

ADDITIONAL INFORMATION

Related Product Information for alpha-Amylase assay kit

Intended Uses: This kit can measure alpha-amylase activity in animal and plant tis sue samples.

Principle of the Assay: The reducing sugar reacts with 3,5-dinitrosalicylic acid under heating conditions to produce a brown-red substance, which is inactivated by the thermolabile nature of beta-amylase, and then the enzyme activity of alpha-amylase is determined.

Background/Introduction: Amylase is an enzyme that catalyses the hydrolysis of starch into sugars. Amylase is present in the saliva of humans and some other mammals, where it begins the chemical process of digestion. Foods that contain large amounts of starch but little sugar, such as rice and potatoes, may acquire a slightly sweet taste as they are chewed because amylase degrades some of their starch into sugar. The pancreas and salivary gland make amylase (alpha-amylase) to hydrolyse dietary starch into disaccharides and trisaccharides which are converted by other enzymes to glucose to supply the body with energy. Plants and some bacteria also produce amylase. As diastase, amylase was the first enzyme to be discovered and isolated (by Anselme Payen in 1833). Specific amylase proteins are designated by different Greek letters. All amylases are glycoside hydrolases and act on alpha-1,4-glycosidic bonds.

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/alpha-amylase/177780>