

## Native *Arachis hypogaea* (peanut) Phospholipase D

Cat. No. NATE-0594

Lot. No. (See product label)

### Introduction

**Description** Phospholipase D is a phospholipid hydrolyzing enzyme and an important component of receptor-mediated signal transduction responses and regulated secretion. Hydrolyzes the phosphate bonds of phospholipids and sphingomyelin to give the corresponding phosphatidic acid. Phospholipase D is involved in conferring drought susceptibility in peanuts, which increases the risk of aflatoxin contamination.

**Applications** Research has shown ADP-ribosylation factor regulation of phospholipase D is important in the release of nascent secretory vesicles from the trans-Golgi network. It has also been used in a study to investigate stimulation of Na<sup>+</sup>-Ca<sup>2+</sup> exchange activity in canine cardiac sarcolemmal vesicles.

**Synonyms** Phospholipase D; EC 3.1.4.4; lipophosphodiesterase II; lecithinase D; choline phosphatase; PLD; 9001-87-0

### Product Information

**Source** *Arachis hypogaea* (peanut)

**Form** Partially purified, lyophilized powder containing buffer salts

**EC Number** EC 3.1.4.4

**CAS No.** 9001-87-0

**Activity** > 60 units/mg protein

**Unit Definition** One unit will liberate 1.0 μmol of choline from L-α-phosphatidylcholine (egg yolk) per hr at pH 5.6 at 30°C.

### Storage and Shipping Information

**Storage** -20°C