

Native *Clostridium perfringens* (*C. welchii*) Phospholipase C

Cat. No. NATE-0593

Lot. No. (See product label)

Introduction

Description Phospholipase C is induced by thrombin and platelet-activating factor, forming 1,2-diacylglycerol and phosphatidic acid. PLC hydrolyzes the phosphate bond on phosphatidylcholine and other glycerophospholipids yielding diacylglycerol; this enzyme will also hydrolyze the phosphate bonds of sphingomyelin, cardiolipin, choline plasmalogen and ceramide phospholipids.

Synonyms Phospholipase C; PLC; 9001-86-9; lipophosphodiesterase I; lecithinase C; *Clostridium welchii* α -toxin; *Clostridium oedematiens* β - and γ -toxins; lipophosphodiesterase C; phosphatidase C; heat-labile hemolysin; α -toxin; EC 3.1.4.3

Product Information

Source *Clostridium perfringens* (*C. welchii*)

Form Type I, Lyophilized powder in buffered salts; Type II, lyophilized powder; Type III, buffered aqueous glycerol solution; Solution in 60% (v/v) glycerol containing 10 mM Tris-HCl, pH 8.0 and 10 mM EDTA; Type IV, lyophilized powder, Contains phosphate buffer salts, EDTA and stabilizer.

EC Number EC 3.1.4.3

CAS No. 9001-86-9

Activity Type I, > 150 units/mg protein; Type II, 10-50 units/mg protein; Type III, Type IV, > 1,000 units/mg protein (Lowry).

Unit Definition One unit will liberate 1.0 μ mole of water soluble organic phosphorus from egg yolk L- α -phosphatidylcholine per min at pH 7.3 at 37°C.

Storage and Shipping Information

Storage -20°C