

## Native Streptococcus pyogenes Streptolysin O

Cat. No. NATE-0671

Lot. No. (See product label)

## Introduction

- **Description** Streptolysin O possesses a single polypeptide chain with a molecular weight of f62 kDa. Streptolysin O binds to membrane cholesterol and oligomerizes to create a ring structure that consists of 45 to 50 units. The ring structure inserts into the membrane to make a large pore (25 to 30 nm), which DNA, RNA, peptides and proteins may pass. It is thiol-activated. It is inhibited by allicin, an active component of garlic.
- **Applications** Permeabilizes membranes to permit cellular uptake of large or charged molecules. Streptolysin O is a toxin secreted by Streptococcus pyogenes and is a prototype member of poreforming bacterial cytolysins. It is used permeabilize cell membranes to permit cellular uptake of large or charged molecules. It is used to study macromolecule delivery. It is a potential anticancer agent and is used to study suicide cancer gene therapy.

Streptolysin O; 98072-47-0; SLO

## **Product Information**

Source	Streptococcus pyogenes
Form	lyophilized powder
CAS No.	98072-47-0
Molecular Weight	69 kDa
Composition	Protein, ~3% Lowry
Unit Definition	One unit will cause 50% lysis of 2% red blood cell suspensions in phosphate buffered saline, pH 7.4, after incubation at 37°C for 30 min.

## Storage and Shipping Information

Storage 2-8°C