

## Native Spinacia oleracea (Spinach) Ferredoxin-NADP+ Reductase

Cat. No. NATE-0256

Lot. No. (See product label)

## Introduction

**Description** Ferredoxin-NADP+ reductase catalyzes the reversible conversion of reduced ferredoxin to oxidized

ferredoxin during photosynthesis. Ferredoxin-NADP (H) reductase constitutes a family of hydrophilic FAD-containing monomeric enzymes that deliver NADPH or low potential one-electron donors to redox-based

metabolisms in plastids, mitochondria, and bacteria.

Applications Ferredoxin-NADP+ Reductase was used in in vitro ferredoxin-dependent desaturation of fatty acids in

cyanobacterial thylakoid membranes. It was also used to regulate glyceraldehyde-3-phosphate

dehydrogenase.

Synonyms EC 1.18.1.2; ferredoxin-nicotinamide adenine dinucleotide phosphate reductase; ferredoxin-NADP+

reductase; TPNH-ferredoxin reductase; ferredoxin-NADP+oxidoreductase; NADP+:ferredoxin oxidoreductase; ferredoxin-NADP+-oxidoreductase; NADPH:ferredoxin oxidoreductase; ferredoxin-nicotinamide-adenine dinucleotide phosphate (oxidized) reductase; 9029-33-

8; FNR

## **Product Information**

**Source** Spinacia oleracea (Spinach)

**Form** lyophilized powder

**EC Number** EC 1.18.1.2

**CAS No.** 9029-33-8

**Activity** > 15 units/mg solid, secondary activity: > 10 units/mg solid NADPH diaphorase

Unit One unit will reduce 1.0 millimole of cytochrome C per min at pH 7.5 at 25°C in the presence of spinach

**Definition** ferredoxin and NADP.

## Storage and Shipping Information

*Storage* −20°C

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