

## Native Leuconostoc mesenteroides 6-Phosphogluconolactonase

Cat. No. NATE-0889

Lot. No. (See product label)

## Introduction

**Description** 6-Phosphogluconolactonase is an enzyme in the pentose phosphate pathway. It converts 6-

phosphogluconolactone to 6-phosphogluconate.

Applications Use 6-Phosphogluconolactonase in diagnostic tests for the determination of creatine kinase or glucose

in the combination with Hexokinase, Glucose-6-phosphate Dehydrogenase and Phosphogluconate

Dehydrogenase.

**Synonyms** 6-Phosphogluconolactonase

## **Product Information**

**Species** Leuconostoc mesenteroides

**Source** Leuconostoc mesenteroides

**Appearance** White lyophilizate

6

Molecular

38 kD (SDS)

Weight

Activity >50 U/mg

Contaminants Creatine kinase: <0.001 G6P-DH: <0.02 Myokinase: <0.001 "NADPH oxidase": <0.001 6-

Phosphogluconate dehydrogenase: < 0.01

Isoelectric

point

**pH Stability** 7.0-9.0

**Optimum pH** 6.0-7.5

Michaelis

(MES buffer, pH 6.5; +25°C): 6-Phosphogluconalactone: < 1 x 10-7 mol/l

Constant

**Specificity** 6-Phosphogluconolactone 100%, gluconolactone 0.5%

Inhibitors (NH4)2SO4 (> 20 mmol/l), Mg2+ (>10 mmol/l), NaCl (>10 mmol/l). The enzyme is not inhibited by

Cu2+, Zn2+, EDTA, 5.5'-dithiobis-2-nitrobenzoic acid, octanol (0.01%), Triton X-100 (1%) and Thesit

1/1

(1%).

## Storage and Shipping Information

**Stability** At -15 to -25°C within specification range for 12 months.

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