

Native Porcine Creatine Kinase

Cat. No. NATE-1884

Lot. No. (See product label)

Introduction

Description

Creatine Kinase is an enzyme present in muscle, brain, and other tissues of vertebrates that catalyzes the reversible conversion of ADP and phosphocreatine into ATP and creatine. Elevated levels of creatine phosphokinase indicates possible Brain injury or stroke, convulsions, delirium tremens, Dermatomyositis or polymyositis, electric shock, Heart attack, Inflammation of the heart muscle (myocarditis), Lung tissue death (pulmonary infarction), Muscular dystrophies and Myopathy.

Synonyms

EC 2.7.3.2; ATP:creatine phosphotransferase; CK; CPK; creatine phosphokinase; creatine phosphotransferase; phosphocreatine kinase; adenosine triphosphate-creatine transphosphorylase; 9001-15-4

Product Information

Species

Porcine

Source

Porcine Heart

Appearance

Reddish to pink lyophilized powder

Form

Lyophilized from tris acetate, DTT and EDTA, pH: 7.0

EC Number

EC 2.7.3.2

CAS No.

9001-15-4

Activity

> 500 U/mg

Contaminants

ALP: < 0.01% LDH: < 0.01% ALT/GPT: < 0.01% GOT/AST: < 1% Ammonia: < 0.01 micromole/mg

Unit Definition

One unit catalyzes the transphosphorylation of one micromole of phosphate from creatine phosphate to ADP per minute at 37°C.

Storage and Shipping Information

Storage

Store at -20° C

Stability

3 years