Creative Enzymes®

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