

Magnesium chloride

Cat. No. COEC-095

Lot. No. (See product label)

Introduction

Description

Magnesium Chloride is widely used as a source of magnesium ion. In biological systems, magnesium is a co-factor for many enzymes including deoxyribonuclease (DNase) and various restriction enzymes. Also plays a role in cell membrane integrity, muscle cell physiology, and nucleic acid structure. Magnesium chloride solution is a favorable choice as an elution buffer for antibody affinity column purifications; it is much milder on most antigens than acid elution, allowing reuse of the antigen column. Also an essential cofactor for the DNA polymerase in polymerase chain reaction (PCR) amplification.

Applications

An excellent magnesium ion source for synthesis and biology research

Synonyms

Magnogene

Product Information

Appearance

Powder

Form

Solid

CAS No.

7786-30-3

Molecular Formula

MgCl₂

Molecular Weight

95.21

Melting Point

714° C (lit.)

Boiling Point

1412° C (lit.) at 1 atm

Solubility

Soluble in water (542 mg/ml at 20° C), alcohol, methanol (15.5 g/100g at 0° C), and ethanol (3.61 g/100g at 0° C).