

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).