Creative Enzymes®

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-foactor 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).