



Certificate of Analysis

Product	91417 - Magnesium Chloride Hexahydrate for molecular biology, 99.5% - [7791-18-6]
Batch No	4834378
Analysis Date	25-Oct-2023
Date of Manufacture	October 2023
Expiry Date/Re-Test Date	October 2028
Molecular Formula	MgCl ₂ .6H ₂ O
Molecular Weight	203.30

Test Parameters	Standards	Actual Results
Appearance (Colour)	White	White
Appearance (Form)	Hygroscopic crystalline compound	Hygroscopic crystalline compound
Solubility (Turbidity) 10% aq. solution	Clear	Clear
Solubility (Colour) 10% aq. solution	Colourless	Colourless
Assay (EDTA Titration)	min. 99.5%	99.7%
pH (5% aq. solution)	5.0 - 6.5	5.80
Sulphate (SO ₄)	max. 0.002%	Passes
Iron (Fe)	max. 0.0002%	Passes
Heavy Metals (Pb)	max. 0.0005%	Passes
Phosphate (PO ₄)	max. 0.0005%	Passes
Copper (Cu)	max. 0.0002%	Passes
Nitrogen Compounds (N)	max. 0.0002%	Passes
Manganese (Mn)	max. 0.0005%	Passes
Potassium (K)	max. 0.001%	Passes
Sodium (Na)	max. 0.001%	Passes
Absorbance (A) of 1M aq. solution in a 1cm cell v/s H ₂ O		
@260nm	max. 0.030	0.018
@280nm	max. 0.025	0.016
DNase, RNase, Protease	Not detected	Not detected