



CERTIFICATE OF ANALYSIS

Item Number	M7716C	Lot Number	3HK0035
Item	Magnesium Chloride, Hexahydrate, USP, EP		
CAS Number	7791-18-6		
Molecular Formula	MgCl ₂ •6H ₂ O	Molecular Weight	203.3

TEST	SPECIFICATION	RESULT
ASSAY (USP)	98.0% - 101.0%	100.3%
POTASSIUM (USP)	TO PASS TEST	PASSES TEST
SULFATE (USP)	-- 0.005%	< 0.005%
INSOLUBLE MATTER (USP)	-- 0.005%	< 0.005%
BARIUM (USP)	TO PASS TEST	PASSES TEST
CALCIUM (USP)	-- 0.01%	< 0.01%
ALUMINUM (USP)	-- 1 ppm	< 1 ppm
pH (50 mg/mL) (USP)	4.5 - 7.0	5.7
IDENTIFICATION (A) (USP)	CHLORIDE	PASSES TEST
IDENTIFICATION (B) (USP)	MAGNESIUM	PASSES TEST
APPEARANCE OF SOLUTION (EP)	CLEAR AND COLORLESS	CLEAR AND COLORLESS
ACIDITY OR ALKALINITY (EP)	-- 0.3 mL of 0.01 M HCl / NaOH	PASSES TEST
BROMIDES (EP)	-- 500 ppm	< 500 ppm
ALUMINUM (EP)	-- 1 ppm	< 1 ppm
ARSENIC (EP)	-- 2 ppm	< 2 ppm
CALCIUM (EP)	-- 0.1%	< 0.1%
IRON (EP)	-- 10 ppm	< 10 ppm
POTASSIUM (EP)	-- 500 ppm	< 500 ppm
WATER (EP)	51.0% - 55.0%	52.9%
IDENTIFICATION (A) (EP)	WATER	PASSES TEST
IDENTIFICATION (B) (EP)	CHLORIDE	PASSES TEST
IDENTIFICATION (C) (EP)	MAGNESIUM	PASSES TEST
ELEMENTAL IMPURITIES	AS REPORTED	COMPLIES WITH STANDARD
APPEARANCE	COLORLESS CRYSTALS	COLORLESS CRYSTALS
RESIDUAL SOLVENTS	TO PASS TEST	NO RESIDUAL SOLVENTS USED
MANUFACTURE DATE		03-NOV-2018
RETEST DATE		03-NOV-2021

Phil Xiao



/

Phil Xiao

Director, Quality Control

Spectrum China Ltd.

A Div of Spectrum Chemical Mfg Corp

Bldg A20, Lane 3802, Shen Gang Road, Song Jiang District,
Shanghai, P.R.China, 201611

(021)67601398