



Giles Chemical, a division of Premier Magnesia, LLC. Repacking Facility

102 Commerce Street Waynesville, NC 28786

Phone: 828-452-4784 Fax: 828-452-4786

USP Certificate of Analysis

Release Date:	11/4/2015	
CUSTOMER:	_____	
CUST. REF:	_____	SHIP DATE: _____
PRODUCT:	Magnesium Sulfate - USP	TRAILER NUMBER: _____
SHELF LIFE:	3 Years	BILL OF LADING # : _____
LOT NUMBER:	15307	PO NUMBER # : _____
SHIPPER :	_____	MANUFACTURED : _____
CUST. SERV. :	_____	EXPIRATION: _____

I certify that this material meets all the requirements of the Giles Chemical sales specifications and the United States Pharmacopeia 35. Periodic testing has shown the samples to be consistently free of volatile organic impurities. Giles Chemical magnesium sulfate is manufactured under the guidelines of Current Good Manufacturing Practices (cGMP).

EPSOM SALT, Magnesium Sulfate - Heptahydrate, USP

METHOD	TEST	LOWER	UPPER	Test Results
VISUAL	Appearance	~~	~~	Clear
USP35	Chloride as Cl (%)	~~	0.014	< 0.014%
USP35	Heavy Metals As Pb (%)	~~	0.001	< 0.001%
USP35	Ignition Loss (%)	40.00	52.00	51.33%
USP35	Iron (ppm)	~~	20.00	< 20.00 ppm
USP35	MgSO ₄ (Anhydrous wt. %)	99.00	100.50	99.61%
USP35	MgSO ₄ (As is basis, %)	48.30	52.00	48.61%
USP35	pH 5% Solution	5.00	9.20	6.95
USP35	Selenium (%)	~~	0.003	< 0.003%
USP35	Mg ²⁺ ID			Present
USP35	SO ₄ ²⁻ ID			Present

CONTACT:

Quality Assurance Laboratory

John Safi - Chemist

828-452-4784 ext. 31

ANALYST:

SIGNATURE ON FILE