

## Giles Chemical, a division of Premier Chemicals, LLC. 102 Commerce Street Waynesville, NC 28786 Tech Certificate of Analysis

	12/14/2009		
CUSTOMER:			
CUST. REF:	_	SHIP DATE:	
PRODUCT:	Magnesium Sulfate - Tech	TRAILER NUMBER:	
SHELF LIFE:	3 Years	BILL OF LADING #:	
LOT NUMBER:	1509	PO NUMBER # :	
SHIPPER :		MANUFACTURED :	
CUST. SERV. :			

I, certify that this material meets all the requirements of the Giles Chemical sales specification and the United States Pharmacopeia 32. Periodic testing has shown the samples to be consistently free of volatile organic impuriities. Giles Chemical manufactured under the guidlines of Good Manufacturing Practices (GMP)

## EPSOM SALT, Magnesium Sulfate - Heptahydrate, Tech Grade

METHOD	TEST	LOWER	UPPER	Test Results
VISUAL	Appearance	~~	~~	Clear
USP32	Chloride as CI (%)	~~	0.014	0.002%
USP32	ignition Loss (%)	40.00	52.00	51.24%
USP32	MgSO <sub>4</sub> ( Anhydrous wt. % )	99.00	100.50	99.47%
USP32	MgSO <sub>4</sub> ( As is basis, % )	48.30	52.00	48.54%
USP32	pH 5% Solution	5.00	9.20	6.23
USP32	Mg <sup>2+</sup> ID			Present
USP32	SO <sub>4</sub> <sup>2-</sup> ID			Present

ATTN: ANALYST:

SIGNATURE ON FILE