



Giles Chemical, a division of Premier Chemicals, LLC. USP Certificate of Analysis

3/23/2007

CUSTOMER: _____
CUST. REF: _____ SHIP DATE: _____
PRODUCT: Magnesium Sulfate - Tech TRAILER NUMBER: _____
SHELF LIFE: 3 Years BILL OF LADING #: _____
LOT NUMBER: 0307 PO NUMBER #: _____
SHIPPER: _____ MANUFACTURED: _____
CUST. SERV.: _____ EXPIRES: _____

I, certify that this material meets all the requirements of the Giles Chemical sales specification and the United States Pharmacopeia 29. Periodic testing has shown the samples to be consistently free of volatile organic impurities. Giles Chemical manufactured under the guidelines of Good Manufacturing Practices (GMP)

EPSOM SALT, Magnesium Sulfate - Heptahydrate, Tech Grade

METHOD	TEST	LOWER	UPPER	Test Results
VISUAL	Appearance	~~	~~	Clear
USP29	Chloride as Cl (%)	~~	0.014	.001%
USP29	Ignition Loss (%)	40.00	52.00	51.74%
USP29	MgSO ₄ (Anhydrous wt. %)	99.00	100.50	99.63%
USP29	MgSO ₄ (As is basis, %)	48.30	52.00	48.62%
USP29	pH 5% Solution	5.00	9.20	6.22
USP29	Mg ²⁺ ID			Present
USP29	SO ₄ ²⁻ ID			Present

ATTN:

ANALYST:

SIGNATURE ON FILE