



**Giles Chemical Corporation Repack Facility**  
**USP - Certificate of Analysis**

10/20/2006

CUSTOMER: _____	
CUST. REF: _____	SHIP DATE: _____
PRODUCT: <b>Magnesium Sulfate - USP</b>	TRAILER NUMBER: _____
SHELF LIFE: <b>3 Years</b>	BILL OF LADING # : _____
LOT NUMBER: <b>1306</b>	PO NUMBER # : _____
SHIPPER : _____	MANUFACTURED : _____
CUST. SERV. : _____	EXPIRES : _____

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

**EPSOM SALT, Magnesium Sulfate - Heptahydrate, USP**

METHOD	TEST	LOWER	UPPER	Test Results
VISUAL	Appearance	~~	~~	Clear
USP24	Arsenic ( PPM )	~~	3.00	< 3 ppm
ESAP	Boron ( PPM )	~~	15.00	< 15.0 ppm
USP25	Chloride as Cl ( % )	~~	0.014	.001%
USP26	Heavy Metals As Pb ( % )	~~	0.001	< .001%
USP25	Ignition Loss ( % )	40.00	52.00	50.99%
USP26	Iron	~~	20.00	.23 ppm
USP25	MgSO <sub>4</sub> ( Anhydrous wt. % )	99.00	100.50	99.52%
USP25	MgSO <sub>4</sub> ( As is basis, % )	48.30	52.00	48.63%
USP25	pH 5% Solution	5.00	9.20	6.30
USP25	Selenium ( % )	~~	0.003	< .003%
USP25	Mg <sup>2+</sup> ID			Present
USP25	SO <sub>4</sub> <sup>2-</sup> ID			Present

ATTN: \_\_\_\_\_

ANALYST: \_\_\_\_\_

SIGNATURE ON FILE