

Giles Chemical Corporation Repack Facility USP - Certificate of Analysis

	11/21/2006		
CUSTOMER:			
CUST. REF:		SHIP DATE:	
PRODUCT:	Magnesium Sulfate - USP	TRAILER NUMBER:	
SHELF LIFE:	3 Years	BILL OF LADING #:	
LOT NUMBER:	1406	PO NUMBER #:	
SHIPPER :		MANUFACTURED :	
CUST. SERV. :		EXPIRES :	

I, certufy 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 impuriities. Giles Chemical corporation manufactured under the guidlines 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 CI (%)	~~	0.014	.001%
USP26	Heavy Metals As Pb (%)	~~	0.001	<.001%
USP25	ignition Loss (%)	40.00	52.00	51.23%
USP26	Iron	~~	20.00	.28 ppm
USP25	MgSO ₄ (Anhydrous wt. %)	99.00	100.50	99.65%
USP25	MgSO ₄ (As is basis, %)	48.30	52.00	48.63%
USP25	pH 5% Solution	5.00	9.20	6.77
USP25	Selenium (%)	~~	0.003	< .003%
USP25	$Mg^{2+}ID$			Present
USP25	SO ₄ ²⁻ ID			Present

ATTN: ANALYST:

SIGNATURE ON FILE