

Giles Chemical, a division of Premier Chemicals, LLC. Repack Facility

USP - Certificate of Analysis

	5/23/2007		
CUSTOMER:			
CUST. REF:		SHIP DATE:	
PRODUCT:	Magnesium Sulfate - USP	TRAILER NUMBER:	
SHELF LIFE:	3 Years	BILL OF LADING #:	
LOT NUMBER:	0507	PO NUMBER #:	
SHIPPER :		MANUFACTURED :	
CUST. SERV. :		EXPIRES :	

I, certufy 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 impuriities. Giles Chemical manufactured under the guidlines of Good Manufacturing Practices (GMP)

EPSOM SALT, Magnesium Sulfate - Heptahydrate, USP

METHOD	TEST	LOWER	UPPER	Test Results
VISUAL	Appearance	~~	~~	Clear
USP29	Arsenic (PPM)	~~	3.00	< 3 ppm
ESAP	Boron (PPM)	~~	15.00	< 15.0 ppm
USP29	Chloride as CI (%)	~~	0.014	.001%
USP29	Heavy Metals As Pb (%)	~~	0.001	<.001%
USP29	ignition Loss (%)	40.00	52.00	51.41%
USP29	Iron	~~	20.00	.32 ppm
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	6.60
USP29	Selenium (%)	~~	0.003	< .003%
USP29	$Mg^{2+}ID$			Present
USP29	SO ₄ ²⁻ ID			Present

ATTN: ANALYST:

SIGNATURE ON FILE