

## **USP - CERTIFICATE OF ANALYSIS**

	1/2/2008		
CUSTOMER:			
CUST. REF:		SHIP DATE:	
PRODUCT:	Magnesium Sulfate - USP	TRAILER NUMBER:	
SHELF LIFE:	3 Years	BILL OF LADING #:	
LOT NUMBER:	0108	PO NUMBER #:	
SHIPPER :		MANUFACTURED :	
CUST. SERV. :		EXPIRES :	

I, certufy that this material meets all the requirements of the PQ Corporation sales specification 600546 and the United States Pharmacopeia 30. All organic volatile impurities listed in General Chaper 467, USP 29 NF 20 are below the USP limits.

EPSOM SALT, Magnesium Sulfate - Heptahydrate, USP; CAS Registry #: 10034-99-8

METHOD	TEST	LOWER	UPPER	Test Results
VISUAL	Appearance	~~	~~	Clear
USP30	Arsenic ( PPM )	~~	3.00	< 3 ppm
ESAP	Boron ( PPM )	~~	15.00	< 15.0 ppm
USP30	Chloride as CI (%)	~~	0.014	<.001%
USP30	Heavy Metals As Pb (%)	~~	0.001	<.001%
USP30	ignition Loss (%)	40.00	52.00	51.37%
USP30	Iron	~~	20.00	.29 ppm
USP30	MgSO <sub>4</sub> ( Anhydrous wt. % )	99.00	100.50	99.68%
USP30	MgSO <sub>4</sub> ( As is basis, % )	48.30	52.00	48.64%
USP30	pH 5% Solution	5.00	9.20	6.30
USP30	Selenium (%)	~~	0.003	< .003%
USP30	Mg <sup>2+</sup> ID			Present
USP30	SO <sub>4</sub> <sup>2-</sup> ID			Present

ATTN: ANALYST:

SIGNATURE ON FILE
PQ - CORPORATION - UTICA, IL
(815) 667-4241