

USP - CERTIFICATE OF ANALYSIS

3/9/2009		
	SHIP DATE:	
Magnesium Sulfate - USP	TRAILER NUMBER:	
3 Years	BILL OF LADING #:	
0409	PO NUMBER #:	
	MANUFACTURED :	
	Magnesium Sulfate - USP 3 Years	SHIP DATE: Magnesium Sulfate - USP 3 Years BILL OF LADING #: PO NUMBER #:

I, certify that this material meets all the requirements of the PQ Corporation sales specification 600546 and the United States Pharmacopeia 31. 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
USP30	Chloride as CI (%)	~~	0.014	<.001%
USP30	Heavy Metals As Pb (%)	~~	0.001	<.001%
USP30	ignition Loss (%)	40.00	52.00	51.14%
USP30	Iron	~~	20.00	0.01
USP30	MgSO ₄ (Anhydrous wt. %)	99.00	100.50	99.68%
USP30	MgSO ₄ (As is basis, %)	48.30	52.00	48.64%
USP30	pH 5% Solution	5.00	9.20	6.29
USP30	Selenium (%)	~~	0.003	< .003%
USP30	$Mg^{2+}ID$			Present
USP30	SO ₄ ²⁻ ID			Present

ATTN: ANALYST:

 $\label{eq:SIGNATURE ON FILE} $$PQ - CORPORATION - UTICA, IL $$P$ (A) $$P$ (B) $$P$$

(815) 667-4241