

Giles Chemical, a division of Premier Chemicals, LLC. Repacking Facility 102 Commerce Street Waynesville, NC 28786 USP Certificate of Analysis

I, certify that this material meets all the requirements of the Giles Chemical sales specification and the United States Pharmacopeia 32. 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
USP32	Arsenic (PPM)	~~	3.00	< 3 ppm
USP32	Chloride as CI (%)	~~	0.014	<.001%
USP32	Heavy Metals As Pb (%)	~~	0.001	<.001%
USP32	ignition Loss (%)	40.00	52.00	51.18%
USP32	Iron	~~	20.00	0.09 ppm
USP32	MgSO ₄ (Anhydrous wt. %)	99.00	100.50	99.77%
USP32	MgSO ₄ (As is basis, %)	48.30	52.00	48.69%
USP32	pH 5% Solution	5.00	9.20	6.60
USP32	Selenium (%)	~~	0.003	< .003%
USP32	Mg ²⁺ ID			Present
USP32	SO ₄ ²⁻ ID			Present

ATTN: ANALYST:

SIGNATURE ON FILE