



## Chemical Corporation TECH Certificate of Analysis

1/15/2007

|  |                         |
|--|-------------------------|
| CUSTOMER: _____                          |                         |
| CUST. REF: _____                         | SHIP DATE: _____        |
| PRODUCT: <u>Magnesium Sulfate - Tech</u> | TRAILER NUMBER: _____   |
| SHELF LIFE: <u>3 Years</u>               | BILL OF LADING #: _____ |
| LOT NUMBER: <b>0107</b>                  | PO NUMBER #: _____      |
| SHIPPER: _____                           | MANUFACTURED: _____     |
| CUST. SERV.: _____                       | EXPIRES: _____          |

I, certify 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 impurities. Giles Chemical corporation manufactured under the guidelines of Good Manufacturing Practices ( GMP )

### EPSOM SALT, Magnesium Sulfate - Heptahydrate, Tech Grade

| METHOD | TEST                                  | LOWER | UPPER  | Test Results |
|--------|---------------------------------------|-------|--------|--------------|
| VISUAL | Appearance                            | ~~    | ~~     | Clear        |
|        |                                       |       |        |              |
| USP29  | Chloride as Cl (%)                    | ~~    | 0.014  | .001%        |
|        |                                       |       |        |              |
| USP29  | Ignition Loss (%)                     | 40.00 | 52.00  | 51.32%       |
|        |                                       |       |        |              |
| USP29  | MgSO <sub>4</sub> ( Anhydrous wt. % ) | 99.00 | 100.50 | 99.65%       |
| USP29  | MgSO <sub>4</sub> ( As is basis, % )  | 48.30 | 52.00  | 48.63%       |
| USP29  | pH 5% Solution                        | 5.00  | 9.20   | 7.10         |
|        |                                       |       |        |              |
| USP29  | Mg <sup>2+</sup> ID                   |       |        | Present      |
| USP29  | SO <sub>4</sub> <sup>2-</sup> ID      |       |        | Present      |

ATTN:

ANALYST:

SIGNATURE ON FILE