



**SPECIFICATIONS**  
**GRADE: EP**

|                      |                                                                                                                                                                                                                                         |                                                                                                                                    |                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <b>PRODUCTS NAME</b> |                                                                                                                                                                                                                                         | <b>:</b>                                                                                                                           | <b>MAGNESIUM CITRATE ANHYDROUS EP</b> |
| <b>CAS NO.</b>       |                                                                                                                                                                                                                                         | <b>:</b>                                                                                                                           | <b>3344-18-1</b>                      |
| <b>Sr. No.</b>       | <b>TEST PARAMETER</b>                                                                                                                                                                                                                   | <b>SPECIFICATION</b>                                                                                                               |                                       |
| 1.                   | Appearance                                                                                                                                                                                                                              | White or almost white, fine, slightly hygroscopic powder.                                                                          |                                       |
| 2.                   | Solubility                                                                                                                                                                                                                              | Soluble in water practically insoluble in ethanol (96 %). It dissolves in dilute hydrochloric acid                                 |                                       |
| 3.                   | <b>Identification A</b><br>It gives the reaction of citrates.<br><b>Identification B</b><br>It gives the reaction of magnesium.<br><b>Identification C</b><br>pH (see Tests).<br><b>Identification D</b><br>Loss on drying (see Tests). | To Pass test<br>To Pass test<br>To Pass test<br>To Pass test                                                                       |                                       |
| 4.                   | Appearance of solution                                                                                                                                                                                                                  | Solution S is not more opalescent than reference suspension III and not more intensely colored than reference solutions Y7 or BY6. |                                       |
| 5.                   | pH                                                                                                                                                                                                                                      | 6.0 to 8.5                                                                                                                         |                                       |
| 6.                   | Oxalates                                                                                                                                                                                                                                | Max. 280 ppm                                                                                                                       |                                       |
| 7.                   | Sulfates                                                                                                                                                                                                                                | Max. 0.2 %                                                                                                                         |                                       |
| 8.                   | Calcium                                                                                                                                                                                                                                 | Max. 0.2 %                                                                                                                         |                                       |
| 9.                   | Iron                                                                                                                                                                                                                                    | Max. 100 ppm                                                                                                                       |                                       |
| 10.                  | Loss on drying (180 ± 10°C for 5 h.)                                                                                                                                                                                                    | Max. 3.5 %                                                                                                                         |                                       |
| 11.                  | Assay % (Dried substance)                                                                                                                                                                                                               | 15.0 % to 16.5 %                                                                                                                   |                                       |