

**SPECIFICATION SHEET-FINISHED PRODUCT**

**Material Name:** Magaldrate IP

|                          |                            |  |                                  |
|--------------------------|----------------------------|--|----------------------------------|
| <b>CAS No.</b> 1317-26-6 |                            |  |                                  |
| <b>Mol. Formula</b>      |                            | $Al_5Mg_{10}(OH)_{31}(SO_4)_2 \cdot xH_2O$   | <b>Mol. Weight</b> 1097.4 gm/mol |
| <b>Sr. No.</b>           | <b>Test</b>                | <b>Specification</b>   |                                  |
| 1                        | Description*               | A white or almost white, crystalline powder, odourless.                                |                                  |
| 2                        | Solubility                 | Practically insoluble in water & in ethanol (95 %).It soluble in dilute mineral acids. |                                  |
| 3                        | Identification             | A) It gives reaction of Magnesium salts<br>B) It gives reaction of Aluminium salts     |                                  |
| 4                        | Arsenic                    | Not more than 10 ppm   |                                  |
| 5                        | Heavy metals               | Not more than 600 ppm  |                                  |
| 6                        | Soluble chloride           | Not more than 3.5 %  |                                  |
| 7                        | Soluble sulfate            | Not more than 1.9 %  |                                  |
| 8                        | Sodium                     | Not more than 2.2 µg Na per ml   |                                  |
| 9                        | Loss on drying*            | Between 10.0 % to 20.0 %   |                                  |
| 10                       | $Al(OH)_3$ (Dried basis) * | Between 32.1 % to 45.9 %   |                                  |
| 11                       | $Mg(OH)_2$ (Dried basis) * | Between 49.2 % to 66.6 %   |                                  |
| 12                       | Sulphate (Dried basis) *   | Between 16 % to 21 %   |                                  |
| 13                       | Assay (Dried basis) *      | Between 90 % to 105 % of $Al_5Mg_{10}(OH)_{31}(SO_4)_2$                                |                                  |
| 14                       | Microbial Limit<br>E-coli  | Absent per gm  |                                  |

\* Re-testing parameter.