



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : MANGANESE CARBONATE**  
(Manganous Carbonate)

|                         |                           |                     |                       |
|-------------------------|---------------------------|---------------------|-----------------------|
| <b>CAS No</b>           | <b>: 34156-69-9</b>       | <b>Product code</b> | <b>: 15588</b>        |
| <b>Mol. Formula</b>     | <b>: MnCO<sub>3</sub></b> | <b>Batch No</b>     | <b>: MCR-14348-01</b> |
| <b>Mol. WT</b>          | <b>: 114.95</b>           | <b>Mfd.</b>         | <b>: Sept. 2018</b>   |
| <b>Date of analysis</b> | <b>: 10/09/18</b>         | <b>Exp.</b>         | <b>: Aug. 2023</b>    |

| S. R | Test                             | Specification                                      | Observation |
|------|----------------------------------|--|-------------|
| 1    | <b>Description</b>               | Almost white to pink or light brown to tan powder. | tan powder. |
| 2    | <b>Manganese (Mn)</b>            | 42 – 46%   | 44.98 %     |
| 3    | <b>Acid insoluble matter</b>     | 0.05% max  | 0.01%       |
| 4    | <b>Chloride (HCl)</b>            | 0.05% max  | <0.05%      |
| 5    | <b>Sulphate (SO<sub>4</sub>)</b> | 0.1% max   | <0.1%       |
| 6    | <b>Iron (Fe)</b>                 | 0.01% max  | <0.01%      |

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**

**[QC Incharge]**

**HEAD-QUALITY ASSUARANCE**  
(G.G.Salian)

**Note:** Computer generated image requires no sign.

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