

M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)	FINISHED PRODUCT INFORMATIONS
QUALITY CONTROL AND ASSURANCE	PRODUCT : MAGNESIUM CITRATE
MSDS no. BPPL 102	SPECIFICATION NO. FP-102

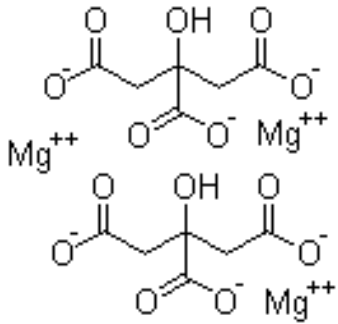
1. **NOMENCLATURE** : Tri-Magnesium Bicitrate.
: Magnesium Citrate Tribasic Hydrate.

2. **CAS No.** : 3344-18-1

3. **EMPIRICAL FORMULA** : $Mg_3 (C_6H_5O_7)_2 / C_{12}H_{10}Mg_3O_{14}$

4. **MOL. WT.** : 451.1 (Anhydrous)

5. **STRUCTURAL FORMULA** :



6. **DESCRIPTION** : A White, odourless powder.

7. **THERAPEUTIC USE** : As an additive in Pharmaceutical, Food and daily Chemical Industries.
: Used as a Dietary supplement , Pharmaceuticals and as a Nutrient.

M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)	FINISHED PRODUCT PHARMACOPOEIAL SPECIFICATIONS
QUALITY CONTROL AND ASSURANCE	PRODUCT : MAGNESIUM CITRATE USP/LR/ACS
MSDS no. BPPL- 102	SPECIFICATION NO. FP-102

- 1. DESCRIPTION** : A White, odourless powder.
- 2. SOLUBILITY** : Slightly soluble in water.
: Soluble in dilute Acids.
- 3. IDENTIFICATION** : **A)** By Reactions of Citrates.
B) BY Reactions of Magnesium.
- 4. HEAVY METALS (AS Pb)** : Max. 0.005% (50 ppm) (USP)
: Max. 0.001% (10 ppm) (LR/FCC)
- 5. CHLORIDES** : Max.0.05% (500 ppm) (USP)
: Max. 0.01% (100 ppm) (LR/FCC)
- 6. SULPHATE** : Max. 0.2% (2000 ppm) (USP/FCC)
: Max. 0.005% (50 ppm) (LR)
- 7. IRON (Fe)** : Max. 0.02% (200 ppm) (USP)
: Max. 0.002% (20 ppm) (LR)
- 8. CALCIUM** : Max. 1.0% (USP)
: Max. 0.15% (FCC / LR)
- 9. ORGANIC VOLATILE IMPURITIES** : Shall pass the Test as per USP.
- 10. LEAD** : Max. 0.0001 % (1 ppm) (FCC /USP/ LR)
- 11. ARSENIC** : Max. 0.0003% (3 ppm) (USP/FCC)
- 12. LOSS ON DRYING** : Max. 2.0% (USP) (Anhy.)
(At 135°C for 16 hrs.) : Max. 29% (14 Hydrate)

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- 13. PH** : 5.0 to 9.0 (USP)
(5% w/v Suspension in Water)
- 14. CADMIUM** : Max. 5 ppm (USP)
- 15. MAGNESIUM** : Max. 10.5 % - 16.4%
- 16. ASSAY** : 14.5% to 16.4% (USP)
(as Mg. on dried basis)
(as Mg. Citrate) : Min. 98.0% (LR/ACS)
- 17. MICROBIAL LIMIT** :
- Total Aerobic Count** : Max. 1000 CFU/gm.
Total Moulds and Yeasts : Max. 100 CFU/gm.
E- Coli : Absent
Salmonella : Absent
- 18. PACKING** : 25 Kgs. LD Polythene Bag
(800 guage) with double
LDPE Liners.
- 19. STORAGE** : To be stored in a dry and
ventilative warehouse.
: Keep away from Moisture
and Toxins.
: Handle with care.