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## CERTIFICATE OF ANALYSIS

Analysis Date:

Re-test Date:

**Product Name: Piperazine Citrate**

### Identification:

Chemical Name: Tripiperazine bis(2-hydroxypropane-1,2,3-tricarboxylate)

Synonyms : Antepar; Anthecole; Antoban;  
Arpezine; Multifuge Citrate

CAS Number : 144-29-6

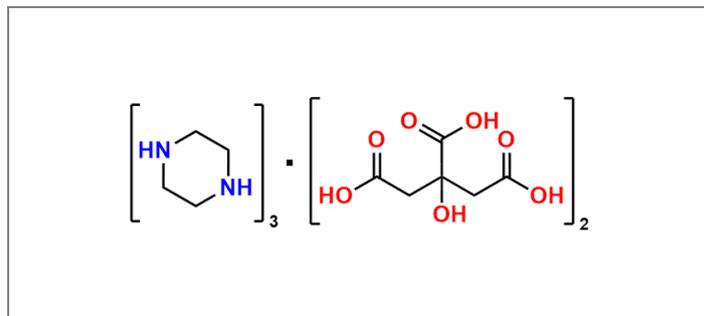
CAT Number : CP-CS0382

Molecular Formula : C<sub>24</sub>H<sub>46</sub>N<sub>6</sub>O<sub>14</sub>

Molecular Weight : 642.66

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



### Analytical Information:

| Sr. No. | Test               | Result                   |
|---------|--------------------|--------------------------|
| 1)      | Description        | Solid                    |
| 2)      | Solubility         | Soluble in Methanol/DMSO |
| 3)      | MASS By LCMS       | Confirm to structure     |
| 4)      | Purity By HPLC     | >98%                     |
| 5)      | <sup>1</sup> HNMR  | Confirm to structure     |
| 6)      | Weight loss by TGA | -                        |
| 7)      | Potency by TGA     | -                        |



#### Prepared and Reviewed By

Ms Priyanka Salunkhe  
(Quality Control)

#### Approved By

Ms Rohini Gagare  
(Quality Assurance)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.