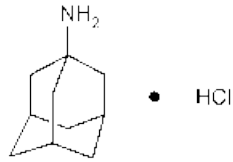




115 W. 3<sup>rd</sup> Street, Suite 720 Tulsa, OK 74103 | (P): 539.777.0720 | (F): 539.777.2487 | [www.triovarx.com](http://www.triovarx.com)

## CERTIFICATE OF ANALYSIS

# AMANTADINE HYDROCHLORIDE USP




Molecular Formula: C<sub>10</sub>H<sub>18</sub>ClN  
Molecular Weight: 187.711 g/mol

**Lot No.** 17020101170223  
**CAS #** 665-66-7  
**Storage Condition** Room Temperature

**Manufacture Date** 11/2016  
**Expiration Date** 10/2020  
**Country of Origin** China

| TEST                          | SPECIFICATION                                  | RESULT   |
|-------------------------------|--|----------|
| Description                   | White or practically White crystalline powder. | Complies |
| Identification (IR)           | Complies with USP specification                | Complies |
| Assay                         | 98.5 - 101.5 %                                 | 100.2 %  |
| Heavy Metals                  | ≤ 10 ppm                                       | < 10 ppm |
| Individual Impurities         | ≤ 0.3 %  | 0.04 %   |
| Total Impurities              | ≤ 1.0 %  | 0.1 %    |
| pH                            | 3.0 - 5.5                                      | 4.3      |
| Clarity and color of solution | Clear and Colorless                            | Complies |
| Loss on Drying                | ≤ 0.5 %  | 0.2 %    |

**Quality Signature**  
**Compendium**  
**Date**  
**Conclusion**

  
\_\_\_\_\_  
USP 39  
02/23/2017  
APPROVED