



Material No.: 4935-06 Batch No.: 0000267727

Manufactured Date: 2020/01/13 Expiration Date: 2023/01/12 Release Date: 2020/09/22

Revision No: 1

## Certificate of Analysis

Meets B.P. Chemical Specifications, Meets E.P. Chemical Specifications, Meets J.P. Chemical Specifications, Meets U.S.P Requirements, GMP Manufactured Product

Test	Specification	Result
USP – Assay (C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> ) (dried basis)	98.5 - 101.5 %	99.2
USP – Identification	Passes Test	PT
USP – Specific Rotation [Å] <sup>25</sup> ^D (+)	12.6 – 14.0 Degree	13.2
USP – pH	7.0 - 8.5	7.7
USP – Loss on Drying at 105°C	<= 0.2 %	< 0.1
USP – Residue on Ignition	<= 0.4 %	< 0.1
USP – Chloride (Cl)	<= 0.05 %	< 0.05
USP – Sulfate (SO4)	<= 0.03 %	< 0.03
USP – Iron (Fe)	<= 0.003 %	< 0.003
USP - Related Compounds - Individual Impurities	<= 0.5 %	< 0.5
JSP – Related Compounds – Total Impurities	<= 2.0 %	< 2.0
EP/BP – Assay (C₀H₀N₃O₂) (dried basis)	98.5 - 101.0 %	100.0
EP/BP – Identification A	Passes Test	PT
EP/BP – Identification B	Passes Test	PT
EP/BP - Appearance of Solution	Passes Test	PT
EP/BP – Specific Rotation [Å] <sup>20</sup> ^D (+)	11.4 – 12.4 Degree	12.0
EP/BP-Ninhydrin-Positive Substances-Each	<= 0.2 %	< 0.1
P/BP-Ninhydrin-Positive Substances-Total Impurities	<= 0.5 %	< 0.1
EP/BP – Chloride (Cl)	<= 200 ppm	< 200
EP/BP – Sulfate (SO <sub>4</sub> )	<= 300 ppm	< 300
EP/BP – Ammonium (NH4)	<= 0.02 %	< 0.02
EP/BP – Iron (Fe)	<= 10 ppm	< 10
EP/BP – Loss on Drying	<= 0.5 %	< 0.1

Material No.: 4935-06 Batch No.: 0000267727

Test	Specification	Result
P/BP – Ash (sulfated)	<= 0.1 %	< 0.1
ndotoxin Concentration, $IU/mg$ ,For Information C	Only	< 0.0030
P – Assay (C6H9N3O2) (dried basis)	99.0 - 101.0 %	99.2
P – Ammonium (NH4)	<= 0.02 %	< 0.02
P – Chloride (Cl)	<= 0.021 %	< 0.021
P – Clarity and Color of Solution	Passes Test	PT
P – Heavy Metals (as Pb)	<= 10 ppm	< 10
P – Iron (Fe)	<= 10 ppm	< 10
P – Identification	Passes Test	PT
P – Loss on Drying at 105°C	<= 0.3 %	< 0.1
P- Optical Rotation [Å]2°^D (+)	11.8 – 12.8 Degree	12.4
P – Related Substances	Passes Test	PT
P – pH	7.0 - 8.5	7.7
P – Residue on Ignition	<= 0.1 %	< 0.01
P - Sulfate (SO <sub>4</sub> )	<= 0.028 %	< 0.028

**Bulk Pharmaceutical Chemical** 

CAUTION: For Manufacturing, processing or repackaging

No Class 1,2,3 or other solvents are used or produced in the manufacturing or purification of the product.

Elemental Impurities (USP (232), EP 5.20) – Information on elemental impurities for this product is available on the associated Product Regulatory Data Sheet and elemental impurity profile report.

Country of Origin: CN

Packaging Site: Paris Mfg Ctr & DC

Manufacturer: P0005111
Manufacturer source batch: 20011729

