

## Product Specification

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

Test	Specification
USP – Assay (C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> ) (dried basis)	98.5 – 101.5 %
USP – Identification	Passes Test
USP – Specific Rotation [α] <sub>D</sub> <sup>25</sup> (+)	12.6 – 14.0 °
USP – pH	7.0 – 8.5
USP – Loss on Drying at 105°C	≤ 0.2 %
USP – Residue on Ignition	≤ 0.4 %
USP – Chloride (Cl)	≤ 0.05 %
USP – Sulfate (SO <sub>4</sub> )	≤ 0.03 %
USP – Iron (Fe)	≤ 0.003 %
USP – Related Compounds – Individual Impurities	≤ 0.5 %
USP – Related Compounds – Total Impurities	≤ 2.0 %
EP/BP – Assay (C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> ) (dried basis)	98.5 – 101.0 %
EP/BP – Identification A	Passes Test
EP/BP – Identification B	Passes Test
EP/BP – Appearance of Solution	Passes Test
EP/BP – Specific Rotation [α] <sub>D</sub> <sup>20</sup> (+)	11.4 – 12.4 °
EP/BP–Ninhydrin–Positive Substances–Each	≤ 0.2 %
EP/BP–Ninhydrin–Positive Substances–Total Impurities	≤ 0.5 %
EP/BP – Chloride (Cl)	≤ 200 ppm
EP/BP – Sulfate (SO <sub>4</sub> )	≤ 300 ppm
EP/BP – Ammonium (NH <sub>4</sub> )	≤ 0.02 %
EP/BP – Iron (Fe)	≤ 10 ppm
EP/BP – Loss on Drying	≤ 0.5 %
EP/BP – Ash (sulfated)	≤ 0.1 %
Endotoxin Concentration, IU/mg ,For Information Only	
JP – Assay (C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> ) (dried basis)	99.0 – 101.0 %
JP – Ammonium (NH <sub>4</sub> )	≤ 0.02 %
JP – Chloride (Cl)	≤ 0.021 %

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Test	Specification
JP - Clarity and Color of Solution	Passes Test
JP - Heavy Metals (as Pb)	≤ 10 ppm
JP - Iron (Fe)	≤ 10 ppm
JP - Identification	Passes Test
JP - Loss on Drying at 105°C	≤ 0.3 %
JP- Optical Rotation [α] <sup>20</sup> <sub>D</sub> (+)	11.8 - 12.8 °
JP - Related Substances	Passes Test
JP - pH	7.0 - 8.5
JP - Residue on Ignition	≤ 0.1 %
JP - Sulfate (SO <sub>4</sub> )	≤ 0.028 %

GMP Manufactured Product

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.

Packaging Site: Paris Mfg Ctr & DC



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