

Material No.: 2067-07 Revision No.: 0

## **Product Specification**

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	
USP – Assay (C6H14N4O2·HCI) (dried basis)	98.5 - 101.5 %	
USP – Identification	Passes Test	
USP – Specific Rotation [Å] <sup>2°</sup> ^D (+)	21.4 – 23.6 °	
USP – Loss on Drying at 105°C	≤ 0.2 %	
USP – Residue on Ignition	≤ 0.1 %	
USP - Sulfate (SO <sub>4</sub> )	≤ 0.03 %	
USP - Related Compounds - Individual Impurities	≤ 0.5 %	
USP - Related Compounds - Total Impurities	≤ 2.0 %	
USP – Chloride (Cl)	16.5 - 17.1 %	
EP/BP - Assay (C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> ·HCl) (dried basis)	98.5 - 101.0 %	
EP/BP – Identification A	Passes Test	
EP/BP - Identification B	Passes Test	
EP/BP - Identification E	Passes Test	
EP/BP - Appearance of Solution	Passes Test	
$EP/BP$ – Specific Rotation [Å] $^{2}$ $^{\circ}$ $^{\circ}$ D (+)	21.0 – 23.5 °	
EP/BP-Ninhydrin-Positive Substances-Each	≤ 0.2 %	
EP/BP-Ninhydrin-Positive Substances-Total Impurities	≤ 0.5 %	
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 %	
JP – Assay (C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> ·HCl) (dried basis)	98.5 - 101.0 %	
JP – Identification	Passes Test	
JP - Optical Rotation (+)	21.5 - 23.5 °	
JP – pH (1 in 10)	4.7 - 6.2	
JP – Clarity and Color of Solution	Passes Test	
JP – Sulfate (SO <sub>4</sub> )	≤ 0.028 <b>%</b>	

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L-Arginine Hydrochloride, U.S.P. Multi-Compendial



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Test	Specification	
JP – Ammonium (NH <sub>4</sub> )	≤ 0.02 %	
JP - Heavy Metals (as Pb)	≤ 20 ppm	
JP – Arsenic (As)	≤ 2 ppm	
JP – Related Substances	Passes Test	
JP – Loss on Drying at 105°C	≤ 0.20 %	
JP – Residue after Ignition	≤ 0.10 %	
Endotoxin Concentration, IU/mg, For Information	n Only	

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.

Storage Condition: Preserve in well-closed containers. Store in well-closed, light-resistant containers

Packaging Site: Paris Mfg Ctr & DC