

Material No.: 2095-07 Revision No.: 0

## **Product Specification**

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

Test	Specification
USP – Assay (CsH11NO2) (dried basis)	98.5 - 101.5 %
USP - Identification	Passes Test
USP – Specific Rotation [Å] <sup>25</sup> ^D (+)	26.6 – 28.8 °
USP – pH	5.5 - 7.0
USP – Loss on Drying at 105°C	≤ 0.3 %
USP – Residue on Ignition	≤ 0.1 %
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>5</sub> H <sub>11</sub> NO <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 [Å] $^{2o}$ ^D (+)	26.5 - 29.0 °
EP/BP-Ninhydrin-Positive Substances-Impurity B	<b>≤ 0.4 %</b>
EP/BP-Ninhydrin-Positive Substances-Each	≤ 0.2 %
EP/BP-Ninhydrin-Positive Substances-Total Impurities	≤ 1.0 %
EP/BP - Chloride (CI)	≤ 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 %
JP - Assay (C5H11NO2) (dried basis)	98.5 - 101.0 %
JP – Identification	Passes Test
JP - Optical Rotation (+)	26.5 – 29.0 °

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5.5 Test 21 % 28 %
21 % 28 %
28 %
0.0/
. 70
ppm
om
Test
) %
) %
5

**GMP Manufactured Product Bulk Pharmaceutical Chemical** 

CAUTION: For Manufacturing, processing or repackaging

Only Class 2 Solvents (Methanol) are likely to be present. All are below Option 1 limits.

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