



PROCIPIENT[®] (Dimethyl Sulfoxide USP, PhEur) Specification

<u>USP Compendial Test</u>	<u>USP Specifications</u>
Identification (IR)	Compares with reference sample
ID (Retention Time)	The Retention Time (RT) of the major peak in the Sensitivity soln corresponds to that of the major peak of the Sample solution in the test for Organic Impurities.
Acidity, (ml 0.01 N NaOH)	NMT 5.0
Water, % by KF	NMT 0.1
UV absorbance	No absorbance maxima between 270 & 350 nm
UV absorbance @ 275 nm	NMT 0.20
A 285 / A 275	NMT 0.65
A 295 / A 275	NMT 0.45
Limit of Nonvolatile Residue	NMT 0.01%
Organic Impurities, % (Reporting Threshold: 0.03%)	Total Impurities NMT 0.1%
Assay, % (anhydrous basis)	NLT 99.9
Refractive index @ 25°C	1.4755 – 1.4775
Specific gravity @ 25°C	1.095 - 1.101
<u>PhEur Compendial Test</u>	<u>PhEur Specifications</u>
First Identification C. (IR)	Compares with spectrum of Dimethyl Sulfoxide CRS
Second Identification A. Relative Density @ 20°C B. Refractive Index @ 20°C D. Nickel Chloride	1.100 – 1.104 1.478 – 1.480 Greenish yellow changing to bluish green at 50°C. Color changes back to greenish yellow on cooling.
Acidity, (ml 0.01 N NaOH)	NMT 5.0
Water, % by KF	NMT 0.2%
Freezing Point, (°C)	NLT 18.3
UV absorbance	No absorbance maxima between 270 & 350 nm
UV absorbance 275 nm	NMT 0.30
285 nm	NMT 0.20
295 nm	NMT 0.20
Related Substances, % (Reporting Threshold: 0.05%)	Each Unspecified Impurity: NMT 0.10 Total Impurities: NMT 0.15
<u>Gaylord Chemical Company Test</u>	<u>Gaylord Chemical Company</u>
Assay, % (anhydrous basis)	≥ 99.99

Approved by:	Function	Signature / Date
Steve Barber	Operations	1/6/25
Natalie Herd	Quality Control	1/6/25
Mary Posey	Quality Assurance	06 JAN 2025

Gaylord Chemical Company, LLC certifies that the lot was fabricated, packaged, labeled, and tested in accordance with the Good Manufacturing Practices (GMP) for Active Pharmaceutical Ingredients and that the US Food and Drug Administration has recognized those facilities as meeting its GMP guidances.

Contact Information:

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