



# PROCIPIENT<sup>®</sup> (Dimethyl Sulfoxide USP, PhEur) Specification

<u>USP Compendial Test</u>	<u>USP Specifications</u>
Identification (IR)	Compares with reference sample
ID (chemical test)	Sol. in chloroform; Red soln.
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 non-volatile Residue	NMT 0.01%
Related Compounds, %	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 (%)	NMT 0.1
<u>Gaylord Chemical Company Test</u>	<u>Gaylord Chemical Company</u>
Assay, % by GC	≥ 99.99

<u>Approved by:</u>	<u>Title</u>	<u>Signature / Date</u>
Paul Dennis	President / CEO	<i>Paul Dennis</i> 3/8/2017
Marc Smith	VP Manufacturing	<i>Marc Smith</i> 3/8/2017
Mary M. Posey	Quality Assurance	<i>Mary M. Posey</i> 3-8-17

Gaylord Chemical Company, LLC certifies that the lot was fabricated, packaged, labeled, and tested in accordance with the Good Manufacturing Practices of the US Food and Drug Administration that has recognized those facilities as meeting its Good Manufacturing Practices standard.

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