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# Certificate of Analysis

<b>Product</b>	<b>66444 - Dimethyl Sulphoxide (DMSO) ACS, ExiPlus, Multi-Compendial, 99.9% - [67-68-5]</b>
<b>Batch No</b>	<b>1923536</b>
<b>Analysis Date</b>	10-Jul-2024
<b>Date of Manufacture</b>	July 2024
<b>Expiry Date/Re-Test Date</b>	July 2029
<b>Molecular Formula</b>	C <sub>2</sub> H <sub>6</sub> SO
<b>Molecular Weight</b>	78.13

Test Parameters	Standards	Actual Results
ExiPlus	meets compendial specs of Ph.Eur, USP	Complies
Appearance (Clarity)	Clear	Clear
Appearance (Colour)	Colourless	Colourless
Appearance (Form)	Liquid	Liquid
Solubility	Soluble in water and ethanol (96%)	Passes
Identification (IR Spectrum)	Complies	Complies
Assay (GC)	min. 99.9%	99.91%
Density (g/ml) @ 20°C	1.099-1.101	1.099
Refractive Index (20°C)	1.478-1.479	1.478
Boiling Range	189-192°C	Passes
Freezing Point	17-18°C	18°C
Non Volatile Matter	max. 0.01%	0.0005%
Acidity (CH <sub>3</sub> COOH)	max. 0.005%	0.0004%
Water (KF)	max. 0.1%	0.02%
Absorbance of sample in 1cm cell v/s H <sub>2</sub> O		.
@270nm	max. 0.40	0.3602
@275nm	max. 0.30	0.2288
@285nm	max. 0.20	0.1416
@290nm	max. 0.18	0.1207
@295nm	max. 0.15	0.1036
@310nm	max. 0.06	0.0594
@330nm	max. 0.02	0.0186
@350-400 nm	max. 0.01	0.0052
(after purging with N <sub>2</sub> for 15 min.)		.

FRM/82/11/2/66444 Rev No. 4 Date 04/04/2024

Prepared by **Rganesh**

In compliance with the standard specifications of SRL

Plant Site 1 : D-88/2, MIDC, Turbhe – 400 705, New Mumbai, India

608-B, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Chakala, Andheri (E), Mumbai - 400 099. India. ☎ +91-22-4268 5800

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Test Parameters	Standards	Actual Results
Absorbance ratio		.
A 285nm/A 275nm	max. 0.65	0.62
A 295nm/A 275nm	max. 0.45	0.45
Dimethyl sulfone and Dibenzyl sulfone (GC)	max. 0.1%	0.02%
Total Impurities	max. 0.15%	0.09%

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