

SPECIFICATIONS

(USP GRADE)

DMSO-ExG

(DIMETHYL SULFOXIDE for Excipients)

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M.W. :78.13
 CAS.NO. :67-68-5
 EINECS :200-664-3
 TSCA :Registered

TESTS	LIMITS
1. Description	Clear, Colorless
2. Identification (A)	Infrared
3. Identification (B)	Chemical Test Produces Deep Violet, Crystalline Solid, Soluble in Chloroform, Yielding a Red Solution
4. Specific gravity	1.095-1.101 at 25°C
5. Acidity	≤5.0mL 0.01 M NaOH
6. Water	≤0.1%
7. Refractive index	1.4755-1.4775 at 25°C
8. Ultraviolet absorbance	A. No maxima between 270 and 350nm B. Absorbance at 275nm: ≤0.20 C. A_{285}/A_{275} : ≤0.65 D. A_{295}/A_{275} : ≤0.45
9. Limit of nonvolatile residue	The weight of the residue does not exceed 0.01%
10. Related compounds	The sum of the areas of all the impurity peaks to the total areas of all peaks: ≤0.1%
11. Assay	≥99.9%

Toray Fine Chemicals Co.,Ltd. guarantees that the product complies with the quality and specifications described above.

Toray Fine Chemicals Co.,Ltd. makes no warranty with respect to fitness for use in the particular field or for any special purpose or use.

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TESTS	LIMITS
1. Description	Colorless liquid or colorless crystals, hygroscopic.
2. Relative density (Identification A)	1.100-1.104
3. Refractive index (Identification B)	1.478-1.480
4. Infraed absorption spectrophotometry (Identification C)	Compares with Spectrum of Dimethyl Sulfoxide CRS
5. Nickel Chloride Test (Identification D)	Conforms
6. Acidity	≤5.0mL of 0.01 M NaOH
7. Freezing point	≥18.3°C
8. Ultraviolet absorbance	A. No maxima between 270 and 350nm B. Absorbance at 275nm: ≤0.30 C. Absorbance at 285nm: ≤0.20 D. Absorbance at 295nm: ≤0.20
9. Related substances	Ratio of the responses of all secondary peaks to the internal standard peak: ≤0.1%
10. Water	≤0.2%

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