

## Certificate of Analysis

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**Product Name:** DMSO, Cell Cryopreserve Grade

**Catalog No.:** 7726

**Batch No.:** 4

CAS Number: 67-68-5

IUPAC Name: Dimethyl sulfoxide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>2</sub>H<sub>6</sub>OS  
**Batch Molecular Weight:** 78.13  
**Physical Appearance:** Colourless liquid  
**Storage:** Store at RT

### 2. ANALYTICAL DATA

**GC:** Shows 99.9% purity  
**Endotoxin:** <0.05 I.U./ml  
**Mycoplasma:** Not detected

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 67-68-5

IUPAC Name: Dimethyl sulfoxide

**Description:**

DMSO, Cell Cryopreserve Grade is a cryoprotective agent which penetrates the cell membrane. DMSO, Cell Cryopreserve Grade reduces the osmotic charge of the cells during freezing and thawing and antagonizes the osmotic shock. Furthermore DMSO, Cell Cryopreserve Grade protects the cells from dehydration and shrinking during freezing and prevents the formation of ice crystals.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>2</sub>H<sub>6</sub>OS

Batch Molecular Weight: 78.13

Physical Appearance: Colourless liquid

**Minimum Purity:** ≥99.9%**Storage:** Store at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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