

Specification Sheet

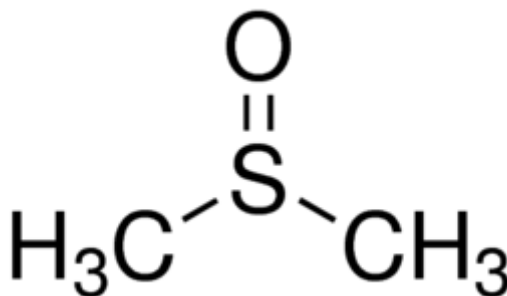
D2650 Sigma-Aldrich

Dimethyl sulfoxide

Hybri-Max™, sterile-filtered, BioReagent, suitable for hybridoma, ≥99.7%

Synonym: DMSO

- CAS Number [67-68-5](#)
- Linear Formula (CH₃)₂SO
- Molecular Weight 78.13
- Beilstein/REAXYS Number 506008
- EC Number [200-664-3](#)
- MDL number [MFCD00002089](#)
- PubChem Substance ID [24893703](#)
- NACRES NA.75



SKU-Pack Size	Availability	Pack Size	Price (SGD)	Quantity
D2650-5X5ML	Available to ship on 15.04.2021 - FROM	5 x 5 mL		<input type="text" value="0"/>
D2650-5X10ML	Available to ship on 15.04.2021 - FROM	5 x 10 mL		<input type="text" value="0"/>
D2650-100ML	Available to ship on 15.04.2021 - FROM	100 mL		<input type="text" value="0"/>

Properties

Related Categories

[BRDU Cell Proliferation Assay Reagents](#), [Cell Biology](#), [Cell Culture](#), [Cell Freezing Media and Reagents](#), [Cell Signaling and Neuroscience](#),



Quality Level	300
grade	Hybri-Max™
vapor density	2.7 (vs air)
vapor pressure	0.42 mmHg (20 °C)
sterility	sterile-filtered
product line	BioReagent
assay	≥99.7%
form	liquid
autoignition temp.	573 °F
expl. lim.	42 %, 63 °F
application(s)	cell culture hybridoma: suitable
	cryopreservation: suitable
impurities	endotoxin, tested
	≤0.1% water water
refractive index	<i>n</i> _{20/D} 1.479 (lit.)
bp	189 °C (lit.)
mp	16-19 °C (lit.)
solubility	H ₂ O: miscible (completely)



density	1.10 g/mL (lit.)
storage temp.	room temp
SMILES string	CS(C)=O
InChI	1S/C2H6OS/c1-4(2)3/h1-2H3
InChI key	IAZDPXIOMUYVGZ-UHFFFAOYSA-N

[Show Fewer Properties](#)

Description

Application

DMSO is a polar aprotic solvent used in chemical reactions, in polymerase chain reactions (PCR) and as a cryoprotectant vitrification agent for the preservation of cells, tissues and organs. DMSO is used in cell freezing media to protect cells from ice crystal induced mechanical injury. It is used for frozen storage of primary, sub-cultured, and recombinant heteroploid and hybridoma cell lines; embryonic stem cells (ESC), and hematopoietic stem cells. DMSO is frequently used in the combinations with BSA or fetal bovine serum (FBS).

Packaging

5 mL and 10 mL in flame sealed ampules, 100 mL in amber bottle

Other Notes

This product is a Hybri-Max product. It is hybridoma tested and is assessed for suitability in cell freezing. This product is sterile filtered (0.2 micron) and tested for endotoxin levels.

Caution

Supercools easily and remelts slowly at room temperature. Solidified product can be re-liquified by warming to room temperature without detriment to the product.

Legal Information

Hybri-Max is a trademark of Sigma-Aldrich Co. LLC

