

Certificate of Analysis

DMSO

Product	Description	Catalogue-No.	Size
DMSO	Dimethyl sulfoxide, for cell culture	P60-36720100	100 ml

Lot No.: H170410

Date of production: October 2016

Composition: Dimethyl sulfoxide
 CAS no.: 67-68-5
 Molecular weight: 78.13 g/mol
 Formula: C₂H₆OS

Storage conditions and stability:

Storage: room temperature
 Stability: 4 years from date of production

Specification:	Acceptance criteria	Result
Pyrogen test	passes test	complies
Assay GC	> 99.5 %	100.0%
Free acid	max. 0.001%	complies
Non-volatile matter	max. 0.001%	complies
Total P	max. 0.00001%	complies
Total Si	max. 0.00002%	complies
Water (K.F.)	max. 0.1%	0.01%
Ca	max. 0.0001%	complies
Cu	max. 0.00005%	complies
Fe	max. 0.0001%	complies
K	max. 0.00005%	complies
Mg	max. 0.00005%	complies
Na	max. 0.0002%	complies
Pb	max. 0.00002%	complies
Zn	max. 0.00002%	complies

Freezing of cells

DMSO is widely used for freezing cells in cell culture. DMSO prevents the formation of ice crystals during the freezing process. DMSO is commonly used at a concentration of 10%. Please note: DMSO is toxic to cells. Usually, a freezing medium consists of standard culture medium supplemented with 10% DMSO. Sometimes 90% serum supplemented with 10% DMSO is used as freezing medium, which may enhance viability in some cell types. After thawing it is recommended to wash cells in medium or to change the medium the day after plating.

Suitability

FOR RESEARCH USE ONLY!

Not approved for human or animal diagnostic or therapeutic procedures. Not for consumption. This product was manufactured by a synthetic method and the raw material is not of animal origin. The suitability for special applications is not regarded.

This document has been produced electronically and is valid without signature.

Date: Jun/22/2017