bio-techne
TOCRIS

Print Date: Oct 8th 2025

Certificate of Analysis

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Product Name: **1,6-Hexanediol** **Catalog No.: 7046** **Batch No.: 3**

CAS Number: 629-11-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_6H_{14}O_2.¼H_2O$

Batch Molecular Weight: 122.68

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

GC: Shows 100.0% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.74	11.91	0
Found	59.38	11.9	0

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Product Name: 1,6-Hexanediol **Catalog No.:** 7046 **Batch No.:** 3

CAS Number: 629-11-8

Description:

1,6-Hexanediol is a widely used tool to probe liquid-liquid phase separation (LLPS) in cells. Disrupts hydrophobic interaction-induced phase separation assemblies both in vitro and in vivo. Dissolves LLPS condensates, such as P bodies, but not solid-like condensates, such as protein aggregates and cytoskeletal assemblies.Typically used as a 3-10% solution (w/v). Disrupts cellular structures in yeast and alters cellular morphology in HeLa cells.

Physical and Chemical Properties:

Batch Molecular Formula: $C_6H_{14}O_2.¼H_2O$

Batch Molecular Weight: 122.68

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:

water to 100 mM
DMSO to 100 mM

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.

References:

Shan *et al* (2018) Basal condensation of Numb and Pon complex via phase transition during *Drosophila* neuroblast asymmetric division. Nat.Commun. ***9*** 737. PMID: 29467404.

Kroschwald *et al* (2017) Hexanediol: a chemical probe to investigate the material properties of membrane-less compartments. Matters.

Wheeler *et al* (2016) Distinct stages in stress granule assembly and disassembly. Elife ***5*** e18413. PMID: 27602576.