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## Product Information

### myo-Inositol Cell Cultured Tested

Product Number **I 7508**  
Store at Room Temperature

#### Product Description

Molecular Formula:  $C_6H_{12}O_6$   
Molecular Weight: 180.2  
CAS Number: 87-89-8  
Melting point: 223 - 226 °C<sup>1</sup> or 225 - 227 °C<sup>2</sup>  
Specific rotation:  $[\alpha]_D = +65.0^\circ$ , (12 g/100 ml H<sub>2</sub>O)  
at 25 °C<sup>3</sup>  
Synonym: l-Inositol;<sup>4</sup> meso-Inositol; Inositol;  
1,2,3,5/4,6-Hexahydroxycyclohexane

Myo-Inositol is a component of membrane phospholipids, glycosylphosphatidylinositol anchors that bind glycoproteins to cell membranes, and inositol phosphate second messengers.

This product is one of the cell culture grade products. It has been tested with CHO, L929, and Vero cell lines and can be used for other cell culture applications.

A method for HPLC identification and quantitation has been published.<sup>5</sup>

#### Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

#### Preparation Instructions

Myo-inositol is soluble in water (50 mg/ml).

#### Storage/Stability

Solutions of myo-inositol can be autoclaved for use in cell culture.

#### References

1. The United States Pharmacopeia, XXII, p. 1749.
2. The Merck Index, 10th ed., Entry # 4861.
3. CRC Handbook of Chemistry & Physics, 79th ed., Lide, D. R., ed., CRC Press (Boca Raton, FL: 1999).
4. Data for Biochemical Research, 3rd ed., Dawson, R. M. C., et al., Oxford University Press (New York, NY: 1986), p.128.
5. Wang, W. T., et al., Analysis of Inositol by High-performance Liquid Chromatography. Anal. Biochem., **188**, 432-435 (1990).

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