myo-Inositol

Product Code: TC140

Product Description:
Molecular Weight: 180.16
Molecular Formula: C₆H₁₂O₆
CAS No: 87-89-8
Synonym: 1, 2, 3, 4, 5, 6-Hexahydroxycyclohexane, i-Inositol, meso-Inositol

Myo-inositol or vitamin B₈ is a member of vitamin B complex family. It is found in the cell membrane phospholipids, plasma lipoproteins and (as phosphate form) in nucleus with potential chemoprotective properties. As one of the number of intracellular phosphate compounds, inositol is involved in cell signaling and may stimulate tumor differentiation. It also has lipotropic activity.

Myo-inositol is used as an essential component in wide range of cell culture media including classical and serum-free media.

Directions:
Preparation instructions:
Myo-inositol is soluble in water. Myo-inositol solutions can be sterilized by autoclaving or by filtering through a sterile membrane filter of porosity 0.22 microns or less.

Quality Control:
Appearance
White powder
Solubility
Clear colorless solution at 5gm in 100ml of water
Fourier Transform Infrared Spectrometry (FTIR)
Standard pattern
Residue on ignition
NMT 0.1%
Melting point
222°C to 227°C
Assay
NLT 97%
Cell Culture Test
Passes

Storage and Shelf Life:
Store at 15-30°C away from bright light.
Shelf life is 48 months.
Use before expiry date given on the product label.

Disclaimer:
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