

MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

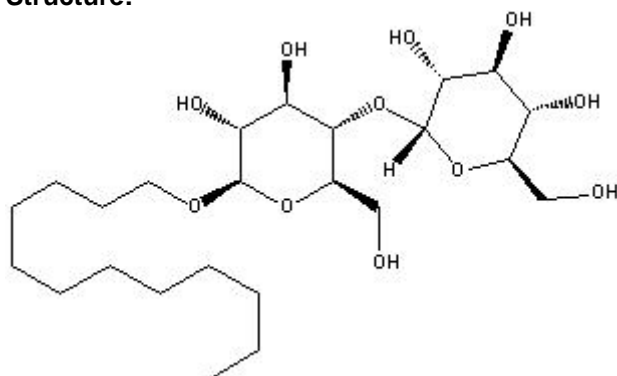
Telephone: 440/337-1200
Toll Free: 800/854-0530
Fax: 440/337-1180
mailto: biotech@mpbio.com
web: <http://www.mpbio.com>

TECHNICAL INFORMATION

Catalog Number: 151013

n-Dodecyl-beta-D-maltoside

Structure:



Molecular Formula: C₂₄H₄₆O₁₁

Molecular Weight: 510.6

CAS # : 69227-93-6

Synonym: Dodecyl-β-D-maltopyranoside

Physical Appearance: White powder

Description: Used as a nonionic detergent for stabilization and activation of enzymes and for membrane research

Critical Micelle Concentration (CMC): 0.1 to 0.6 mM. Detergents with high CMC values are generally easy to remove by dilution; detergents with low CMC values are advantageous for separations on the basis of molecular weight. As a general rule, detergents should be used at their CMC at a detergent-to-protein weight ratio of approximately ten.²⁻³

Purity: ~97%

Aggregation Number: 98

Solubility: Soluble in water

References:

- Matern, et al. *Proc. Nat. Acad. Sci. U.S.A.*, **v.81**, 7036, (1984)
- Womack, M.D., et al., *Biochim. Biophys. Acta*, **v. 733**, 210, (1983)
- Matson, R.S. and Goheen, S.C., *LC-GC*, **v. 4(7)**, 624, (1986)