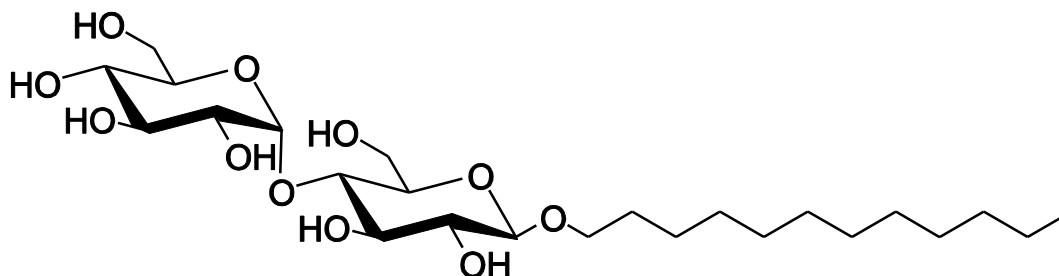


Research Certificate of Analysis

n-dodecyl- β -D-maltoside (DDM)
n-dodecyl- β -D-maltopyranoside

Molecular Weight: 510.615
Molecular Formula: C₂₄H₄₆O₁₁
Storage: -20°C
Shelf Life (Unopened): 1 Year
Physical Form: Powder
Lot Number: DDM-14



Product Specifications

Test	Limits	Results
Mass Spec	Consistent with Structure	Consistent with Structure
Proton NMR	Consistent with Structure	Consistent with Structure
TLC Analysis	>99%	>99%
Ninhydrin	Negative	Negative
Iodine	One Spot	One Spot
Phosphorus	Negative	Negative
Char	Positive	Positive

Signed: Electronically Signed By QC
Release Date: August 26, 2013