

Analytical Data Sheet

Lot number **1000030217**
not for drug use

Catalog number **M-1625.0025**
Product number **4013562.0025**
Product **4- Nitrophenyl β- D- galactopyranoside**
Molecular formula $C_{12}H_{15}NO_8$
Relative molecular mass 301.25

Tests	Results
Appearance	beige powder
Appearance of solution	clear, beige solution (50 mg/mL in methanol)
Identification (elemental analysis)	Theory Found C = 47.8% C = 47.7% H = 5.0% H = 5.1% N = 4.7% N = 4.6%
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -84.7^\circ$ (1% in water)
Purity (TLC)	> 95%
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Assay (elemental analysis)	99.6% (Cth 47.84%, Cfd 47.65%)

Latest update: March 27, 2020

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