



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-281428
Lot Number: SAMPLE
Product Name: 4-Nitrophenyl- α -D-maltopyranoside
CAS Number: 17400-77-0
Molecular Formula: $C_{18}H_{25}NO_{13}$
Molecular Weight: 463.39

Test	Specification	Result
Appearance	White to off-white crystalline powder	Slightly off-white crystalline powder
Identification (FTIR)	Consistent with reference spectrum	Complies
Purity (HPLC)	$\geq 98.0\%$	98.7%
Solution (Color)	Colorless (1% in water)	Complies
Solution (Turbidity)	≤ 4.0 NTU (1% in water)	1.4 NTU (1% in water)
Specific Rotation ($\alpha_{20/D}$)	244.5 - 250.5° (c = 0.5 in water, calculated on dry matter)	249.0° (c = 0.5 in water, calculated on dry matter)
Impurity	$\leq 0.1\%$ (p-nitrophenol, HPLC)	0.00% (p-nitrophenol, HPLC)
Water Content (KF)	$\leq 8.0\%$	5.6%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

Santa Cruz Biotechnology, Inc. 800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 62221 4503 0 www.scbt.com