

Analytical Data Sheet

Lot number **1000008464**
not for drug use

Catalog number **Q-1070.0250**
Product number **4014175.0250**
Product **4- Aminophenyl- 1- thio- β - D- galactopyranoside**
Molecular formula **C₁₂H₁₇NO₅S**
Relative molecular mass **287.34**

Tests	Results								
Appearance	beige to light brown powder								
Appearance of solution	clear, yellow solution (25 mg/mL in methanol)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 50.2%</td> <td>C = 50.0%</td> </tr> <tr> <td>H = 6.0%</td> <td>H = 6.0%</td> </tr> <tr> <td>N = 4.9%</td> <td>N = 4.7%</td> </tr> </tbody> </table>	Theory	Found	C = 50.2%	C = 50.0%	H = 6.0%	H = 6.0%	N = 4.9%	N = 4.7%
Theory	Found								
C = 50.2%	C = 50.0%								
H = 6.0%	H = 6.0%								
N = 4.9%	N = 4.7%								
Identification (TLC)	complies with authentic material								
Melting point	171.2 °C								
Specific optical rotation	$[\alpha]_D^{24} = -45.5^\circ$ (1 % in MeOH)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/methanol/acetic acid/H ₂ O 70/42/0.5/10 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	100.3% (Cth 50.16%, Cfd 50.32%)								
Water content (KF volumetric)	0.7%								

Latest update: November 14, 2018

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