

## Analytical Data Sheet

Lot number **1000010696**  
not for drug use

Catalog number **A-3850.0005**  
Product number **4026369.0005**  
Product **Boc- Pyr- OH**  
Molecular formula  $C_{10}H_{15}NO_5$   
Relative molecular mass 229.23

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 52.4%</td> <td>C = 52.3%</td> </tr> <tr> <td>H = 6.6%</td> <td>H = 6.6%</td> </tr> <tr> <td>N = 6.1%</td> <td>N = 6.1%</td> </tr> </tbody> </table>	Theory	Found	C = 52.4%	C = 52.3%	H = 6.6%	H = 6.6%	N = 6.1%	N = 6.1%
Theory	Found								
C = 52.4%	C = 52.3%								
H = 6.6%	H = 6.6%								
N = 6.1%	N = 6.1%								
Identification (TLC)	complies with authentic material								
Melting point	116 °C								
Specific optical rotation	$[\alpha]_D^{24} = -38.5^\circ$ (1% in acetic acid)								
Purity (HPLC)	99.39% (TFA)								
Purity (TLC)	> 98%								
Related impurities (TLC)	< 0.1% Boc-Pyr-OBzl < 0.5% Pyr-OH								
TLC conditions	chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/20/6/11 chloroform/methanol/acetic acid/H <sub>2</sub> O 70/42/0.5/10 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer								
Assay (titration)	98.6% (TBAH)								

Latest update: January 15, 2019

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