

Analytical Data Sheet

Lot number **1069121**
not for drug use

Catalog number **M-1180.0005**
Product number **4001815.0005**
Product **Boc- Tyr- ONp**
Molecular formula $C_{20}H_{22}N_2O_7$
Relative molecular mass 402.40

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, yellowish solution (50 mg/ml in acetone)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 59.4 %</td> <td>C = 59.1 %</td> </tr> <tr> <td>H = 5.5 %</td> <td>H = 5.6 %</td> </tr> <tr> <td>N = 6.9 %</td> <td>N = 6.9 %</td> </tr> </tbody> </table> <p>calc. as x 0.1 H₂O (0.4%)</p>	Theory	Found	C = 59.4 %	C = 59.1 %	H = 5.5 %	H = 5.6 %	N = 6.9 %	N = 6.9 %
Theory	Found								
C = 59.4 %	C = 59.1 %								
H = 5.5 %	H = 5.6 %								
N = 6.9 %	N = 6.9 %								
Identification (TLC)	complies with authentic material								
Melting point	153 °C								
Specific optical rotation	$[\alpha]_D^{24} = -5.7^\circ$ (1 % acetone)								
Purity (TLC)	> 98%								
TLC conditions	chloroform/ethylacetate/acetic acid 50/50/2 chloroform/ethylacetate 1/1 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.0% (Cth 59.70 %, Cfd 59.12 %)								
Water content (KF coulometric)	0.2%								

Latest update: December 20, 2016

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