

Analytical Data Sheet

Lot number **1073425**
not for drug use

Catalog number A-2405.0025
Product number 4000198.0025
Product Boc- Tyr- OH
Molecular formula C₁₄H₁₉NO₅
Relative molecular mass 281.31

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 = 59.8 %</td> <td>C = 59.4 %</td> </tr> <tr> <td>H = 6.8 %</td> <td>H = 6.7 %</td> </tr> <tr> <td>N = 5.0 %</td> <td>N = 4.9 %</td> </tr> </tbody> </table>	Theory	Found	C = 59.8 %	C = 59.4 %	H = 6.8 %	H = 6.7 %	N = 5.0 %	N = 4.9 %
Theory	Found								
C = 59.8 %	C = 59.4 %								
H = 6.8 %	H = 6.7 %								
N = 5.0 %	N = 4.9 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +36.8^\circ$ (1 % in dioxane)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% Boc-Tyt-Tyr-OH < 0.5% Boc-Tyr(Boc)-OH ≤ 0.05% H-Tyr-OH								
TLC conditions	toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid 85/10/5 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	0.2% Boc-D-Tyr-OH								
Other amino acids (GC)	< 0.3%								
Assay (titration)	99.5% (TBAH)								
Water content (KF volumetric)	0.2%								