

Analytical Data Sheet

Lot number **1065621**
not for drug use

Catalog number **F-3350.0025**
Product number **4026261.0025**
Product **H- 3- Iodo- Tyr- OH**
Molecular formula $C_9H_{10}INO_3$
Relative molecular mass 307.09

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in 80% acetic acid)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 35.0 %</td> <td>C = 34.9 %</td> </tr> <tr> <td>H = 3.3 %</td> <td>H = 3.2 %</td> </tr> <tr> <td>N = 4.5 %</td> <td>N = 4.6 %</td> </tr> </tbody> </table> <p>calc. as x 0.12 H₂O (0.7%)</p>	Theory	Found	C = 35.0 %	C = 34.9 %	H = 3.3 %	H = 3.2 %	N = 4.5 %	N = 4.6 %
Theory	Found								
C = 35.0 %	C = 34.9 %								
H = 3.3 %	H = 3.2 %								
N = 4.5 %	N = 4.6 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -3.2^\circ$ (5% 1N HCl)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 methanol/chloroform/ammonia 17% 2/2/1 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	< 0.1% D-Enantiomer								
Other amino acids (GC)	< 0.3%								
Assay (titration)	97.5% (HClO ₄)								
Water content (KF volumetric)	0.7%								

Latest update: April 28, 2016

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