

## Analytical Data Sheet

Lot number **1056997**  
not for drug use

Catalog number **A-2475.0005**  
Product number **4002557.0005**  
Product **Boc- Val- ONp**  
Molecular formula  $C_{16}H_{22}N_2O_6$   
Relative molecular mass 338.36

Tests	Results								
Appearance	off-white powder								
Appearance of solution	clear, slightly colored solution (50 mg/mL in dioxane)								
Identification (ESI-MS)	m = 338.4u (average mass)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 56.8%</td> <td>C = 56.5%</td> </tr> <tr> <td>H = 6.6%</td> <td>H = 6.9%</td> </tr> <tr> <td>N = 8.3%</td> <td>N = 8.1%</td> </tr> </tbody> </table>	Theory	Found	C = 56.8%	C = 56.5%	H = 6.6%	H = 6.9%	N = 8.3%	N = 8.1%
Theory	Found								
C = 56.8%	C = 56.5%								
H = 6.6%	H = 6.9%								
N = 8.3%	N = 8.1%								
Identification (TLC)	complies with authentic material								
Melting point	67 °C								
Specific optical rotation	$[\alpha]_D^{24} = -38.7^\circ$ (1% in dioxane)								
Purity (TLC)	> 98%								
TLC conditions	chloroform/ethylacetate 9/1 chloroform/methanol/acetic acid 90/8/2 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.5% (Cth 56.80%, Cfd 56.53%)								
Water content (KF volumetric)	0.1%								