

Analytical Data Sheet

Lot number **1074047**
not for drug use

Catalog number **C-1360.0005**
Product number **4004766.0005**
Product **Z- D- Asp(OtBu) - OH**
Molecular formula **C₁₆H₂₁NO₆**
Relative molecular mass **323.35**

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 = 59.4 %</td> <td>C = 59.2 %</td> </tr> <tr> <td>H = 6.6 %</td> <td>H = 6.4 %</td> </tr> <tr> <td>N = 4.3 %</td> <td>N = 4.4 %</td> </tr> </tbody> </table>	Theory	Found	C = 59.4 %	C = 59.2 %	H = 6.6 %	H = 6.4 %	N = 4.3 %	N = 4.4 %
Theory	Found								
C = 59.4 %	C = 59.2 %								
H = 6.6 %	H = 6.4 %								
N = 4.3 %	N = 4.4 %								
Identification (TLC)	complies with authentic material								
Melting point	78 °C								
Specific optical rotation	$[\alpha]_D^{24} = -33.2^\circ$ (1 % in chloroform)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid/H ₂ O 85/13/0.5/1.5 chloroform/methanol/acetic acid 90/8/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Enantiomer content (GC)	0.4% Z-L-Asp(OtBu)-OH								
Assay (titration)	97.9% (TBAH)								
Water content (KF volumetric)	0.2%								

Latest update: October 31, 2017

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