

Analytical Data Sheet

Lot number **1000000766**
not for drug use

Catalog number **C-4210.0005**
Product number **4044802.0005**
Product **Z- D- allo- Thr(tBu) - OH · DCHA**
Molecular formula $C_{16}H_{23}NO_5 \cdot C_{12}H_{23}N$
Relative molecular mass 490.68

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 68.5 %</td> <td>C = 68.3 %</td> </tr> <tr> <td>H = 9.5 %</td> <td>H = 9.6 %</td> </tr> <tr> <td>N = 5.7 %</td> <td>N = 5.6 %</td> </tr> </tbody> </table>	Theory	Found	C = 68.5 %	C = 68.3 %	H = 9.5 %	H = 9.6 %	N = 5.7 %	N = 5.6 %
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H = 9.5 %	H = 9.6 %								
N = 5.7 %	N = 5.6 %								
Identification (TLC)	conforms with authentic material								
Melting point	182 °C								
Specific optical rotation	$[\alpha]_D^{24} = -12.6^\circ$ (1 % in MeOH)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/methanol/acetic acid 90/8/2 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Enantiomer content (GC)	0.1% L-Threonin < 0.1% D-Threonin < 0.1% L-allo-Threonin > 99.7% D-allo-Threonin								
Assay (elemental analysis)	99.6% (Cth 68.54 %, Cfd 68.27 %)								
Water content (KF volumetric)	0.1%								

Latest update: June 20, 2018

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