

Analytical Data Sheet

Lot number **1060288**
not for drug use

Catalog number **L-1385.0250**
Product number **4000902.0250**
Product **Suc- Ala- Ala- Ala- pNA**
Molecular formula **C₁₉H₂₅N₅O₈**
Relative molecular mass **451.44**

Tests	Results								
Appearance	slightly yellow powder								
Appearance of solution	clear, slightly yellowish solution (50 mg/ml in dimethylformamide)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 50.6 %</td> <td>C = 50.6 %</td> </tr> <tr> <td>H = 5.6 %</td> <td>H = 5.6 %</td> </tr> <tr> <td>N = 15.5 %</td> <td>N = 15.4 %</td> </tr> </tbody> </table>	Theory	Found	C = 50.6 %	C = 50.6 %	H = 5.6 %	H = 5.6 %	N = 15.5 %	N = 15.4 %
Theory	Found								
C = 50.6 %	C = 50.6 %								
H = 5.6 %	H = 5.6 %								
N = 15.5 %	N = 15.4 %								
Identification (TLC)	complies with authentic material								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% p-nitroaniline < 0.2% H-Ala-Ala-Ala-pNA								
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 acetonitrile/H ₂ O 7/3 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.6% (Nth 15.51%, Nfd 15.45%)								
Water content (KF volumetric)	0.2%								

Latest update: July 08, 2015

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