

Analytical Data Sheet

Lot number **1000023548**
not for drug use

Catalog number **L-1540.0250**
Product number **4008041.0250**
Product **H- Glu- pNA**
Molecular formula $C_{11}H_{13}N_3O_5$
Relative molecular mass 267.24

Tests	Results								
Appearance	slightly yellowish powder								
Appearance of solution	clear, yellowish solution (10 mg/mL in 80% acetic acid)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 48.1%</td> <td>C = 48.4%</td> </tr> <tr> <td>H = 5.1%</td> <td>H = 5.4%</td> </tr> <tr> <td>N = 15.3%</td> <td>N = 15.4%</td> </tr> </tbody> </table> <p>calc. x 0.42 H₂O (2.8%)</p>	Theory	Found	C = 48.1%	C = 48.4%	H = 5.1%	H = 5.4%	N = 15.3%	N = 15.4%
Theory	Found								
C = 48.1%	C = 48.4%								
H = 5.1%	H = 5.4%								
N = 15.3%	N = 15.4%								
Identification (TLC)	complies with authentic material								
Purity (TLC)	≥ 99%								
Related impurities (TLC)	0.1% pNA (p-Nitroaniline)								
TLC conditions	ethylacetate/pyridine/acetic acid/H ₂ O 60/30/9/16.5 n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	96.9% (Nth 15.72%, Nfd 15.23%)								
Water content (KF volumetric)	3.0%								
Residual organic solvents (GC)	not det. acetone 90mg/kg ethylacetate								

Latest update: October 21, 2019

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