

Analytical Data Sheet

Lot number **1000019328**
not for drug use

Catalog number **F-1510.0500**
Product number **4006579.0500**
Product **H- 6- Diazo- 5- oxo- Nle- OH**
Molecular formula **C₆H₉N₃O₃**
Relative molecular mass **171.16**

Tests	Results
Appearance	slightly yellow powder
Appearance of solution	clear, yellow solution (50 mg/mL in methanol/water 1/1)
Identification (elemental analysis)	Theory Found C = 42.1% C = 41.9% H = 5.3% H = 5.2% N = 24.6% N = 24.3%
Identification (TLC)	complies with authentic material
Melting point	137 °C
Specific optical rotation	$[\alpha]_D^{24} = +17.6^\circ$ (1% in water)
Purity (TLC)	> 95%
TLC conditions	methanol/chloroform/ammonia 17% 2/2/1 isopropanol/NH ₃ 25% 7/3 chloroform/methanol/NH ₃ 25%/H ₂ O 20/22/5/5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	99.2% (Nth 24.55%, Nfd 24.35%)
Assay (titration)	99.4% (TBAH)
Water content (KF volumetric)	0.6%

Latest update: July 25, 2019

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