

Analytical Data Sheet

Lot number **1000032865**
not for drug use

Product L-Azetidine-2-carboxylic acid
Product number **4019045.0005**
Molecular formula C₄H₇NO₂
Relative molecular mass 101.11

Tests	Results								
Appearance	beige powder								
Appearance of solution	clear, colorless solution (50 mg/mL in 80% acetic acid)								
Identification (¹H-NMR)	corresponds to the reference								
Identification (¹³C-NMR)	corresponds to the reference								
Identification (IR)	corresponds to the reference								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 47.5%</td> <td>C = 47.5%</td> </tr> <tr> <td>H = 7.0%</td> <td>H = 6.8 %</td> </tr> <tr> <td>N = 13.9%</td> <td>N = 13.8 %</td> </tr> </tbody> </table>	Theory	Found	C = 47.5%	C = 47.5%	H = 7.0%	H = 6.8 %	N = 13.9%	N = 13.8 %
Theory	Found								
C = 47.5%	C = 47.5%								
H = 7.0%	H = 6.8 %								
N = 13.9%	N = 13.8 %								
Identification (TLC)	complies with authentic material								
Melting point	214 °C								
Specific optical rotation	[α] _D ²⁴ = -124.9 ° (1% in water)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/ H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	0.1% D-enantiomer								
Assay (elemental analysis)	99.9% (Nth 13.85%, Nfd 13.83%)								
Water content (KF volumetric)	0.9%								

Latest update: June 29, 2020

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