

## Analytical Data Sheet

Lot number **1000024406**  
not for drug use

Retest date n/a  
 Catalog number **F-1281.0001**  
 Product number **4019045.0001**  
 Product **L- Azetidine- 2- carboxylic acid**  
 Molecular formula  $C_4H_7NO_2$   
 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 ( $^{13}C$ -NMR)	corresponds to the reference
Identification (IR)	corresponds to the reference
Identification (elemental analysis)	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	$[\alpha]_D^{24} = -124.9^\circ$ (1 % in water)
Purity (TLC)	> 99%
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub> 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%