

Analytical Data Sheet

Lot number **1000010277**
not for drug use

Catalog number M-2240.0005
Product number 4027537.0005
Product Carbamoyl- Asp- OH · magnesium salt/Carbamoyl- Asp- OH · dipotassium salt (1:1)
Molecular formula C₁₀H₁₂K₂MgN₄O₁₀
Relative molecular mass 450.73

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (25 mg/ml in water)
Identification (FAB-MS)	[(Carbamoyl-Asp) · K ₂ + H] ⁺ : m/z = 253 u [(Carbamoyl-Asp) · K ₂ + K] ⁺ : m/z = 291 u
Amino acid analysis	4.8 % Asp
Specific optical rotation	[α] _D ²⁴ = + 27.1° (10 % in water) [α] ₃₆₅ ²⁴ = + 90.6° (10 % in water)
Purity (TLC)	> 90%
TLC conditions	isopropanol/ammonia conc. 1/1 2-butanol/pyridine/H ₂ O 7/7/6 acetonitrile/H ₂ O 7/3 ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 * plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	0.1% D-enantiomer
Assay (elemental analysis)	67.8% [Carbamoyl-aspartate] ²⁻ (Nth 16.09 %, Nfd 10.91 %)
Water content (KF volumetric)	13.3%

Latest update: December 17, 2018

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