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Certificate of Analysis

Catalogue Number	08019
Lot Number	000127-1041786
Product	Dimethyl((3S)-4,4-dimethyl-3-(Boc-amino)-2-oxopentyl)phosphonate
CAS Number	176504-89-5
Molecular Formula	C ₁₄ H ₂₈ NO ₆ P
Molecular Weight	337.35

Appearance	White powder
Solubility	Clear, colorless solution (50 mg/mL in Ethylacetate)
Elemental Analysis (Theory)	C = 49.85%; H = 8.37%; N = 4.15%
Elemental Analysis (Found)	C = 49.60%; H = 8.01%; N = 4.09%
TLC System	Chloroform/Methanol (9:1) Chloroform/Methanol/Acetic acid (90:8:2) Plate: silicagel 60 F ₂₅₄ Detected by: UV, ninhydrin, chlorine-tolidine
Optical Rotation	[α] _D ²² = +20.2° (C=1.82% in Chloroform)
Analysis by Mass Spectra	[M+H] ⁺ : m/z = 338 u
¹H NMR	Conforms to structure
Purity by TLC	> 97%
Storage	Store at 0-8 °C

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Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager