

Analytical Data

Code: 4095-v

Compound: Amastatin
[(2S, 3R)-3-Amino-2-hydroxy-5-methylhexanoyl]-L-valyl-L-valyl-L-aspartic acid
(M. W. 474.55) $C_{21}H_{38}N_4O_8$

Appearance : White amorphous powder

* **Specific Optical Rotation**

$[\alpha]_D^{20}$ -51.6° (c 0.21, AcOH)

* **Elemental Analysis**

Found C, 52.16 ; H, 8.10 ; N, 11.53 %

Thin Layer Chromatography : Single spot

Silica Gel Layer

Application : 20 μ g

Solvent System : n-BuOH:AcOH:H₂O:pyridine=15:3:12:10

n-BuOH:AcOH:H₂O=4:1:1

Located by ninhydrin reagent

Mass Spectral Analysis : Exhibits correct MW

Reference

J. Antibiot., 31, 636(1978)

Sample : 4095-v Amastatin
Sample Size : 2.0 μ L (0.53 mg/ 106 μ L- AcOH)
Column : YMC Pack ODS-A (4.6 mm I.D. \times 150 mm) #0415227557(W) + G(4 \times 10 mm)
Eluent : 10 mM K-Pi (pH2.6) + 50 mM Na₂SO₄
Gradient : Acetonitrile 10% to 60% [25 min.]
Flow Rate : 1.0 mL/min. , ; Press. : 112 kg/cm² , ; Temp. : 25 $^{\circ}$ C
Detection : CH.1 210 nm

