



>>Entry Name: Bacoside A

CAS Registry Number: 11028-00-5

Molecular Formula: C₄₁H₆₈O₁₃

Molecular Weight: 768.98

Accurate Mass: 768.465995

Percentage Composition: C 64.04%; H 8.91%; O 27.05%

General Statement: Struct. unknown. Acid hydrolysis gives arabinose, glucose and the sapogenins 3-Hydroxy-16,17-secodammara-17(20),22,24-trien-16,18-olide [KLZ86-B](#), Bacogenin A₁ [JXD19-Y](#) and Bacogenin A₃ [KQK88-P](#)

Biological Source: Constit. of *Bacopa monniera*

Physical Description: Powder (EtOH aq.)

Melting Point: Mp 250-251 dec.°

Optical Rotation: [α]_D −42 (EtOH aq.)

>>Derivative: Isomer

Synonym(s): Bacoside B

CAS Registry Number: 11048-52-5

Molecular Formula: C₄₁H₆₈O₁₃

Molecular Weight: 768.98

Accurate Mass: 768.465995

Percentage Composition: C 64.04%; H 8.91%; O 27.05%

Biological Source: Constit. of *Bacopa monniera*

Physical Description: Needles (MeOH)

Melting Point: Mp 203°

Optical Rotation: [α]_D +8 (EtOH aq.)

Other Data: Struct. not definitely established

References:

Chatterji, N. *et al.*, *Indian J. Chem.*, 1965, **3**, 24, (*isol*, Bacoside A)

Basu, N. *et al.*, *Indian J. Chem.*, 1967, **5**, 84, (*isol*, Bacoside B)

Kulshreshtha, D.K. *et al.*, *Phytochemistry*, 1973, **12**, 2074, (*struct*)

Kawai, K.-I. *et al.*, *Phytochemistry*, 1974, **13**, 2829; 1978, **17**, 287, (*struct*)

Chandel, R.S. *et al.*, *Phytochemistry*, 1977, **16**, 141, (*struct*)