

0001 - Andrographis for Andrographilides by HPLC

Botanical Name: *Andrographis paniculata*

Common Names: Creat, Kalmegha, Bhunimba

Plant Description:

Andrographis paniculata is an herbaceous plant in the family Acanthaceae, native to India and Sri Lanka. It grows erect to a height of 1-3.5 feet in moist shady places with hairless leaves and white flowers with rose-purple spots on the petals.

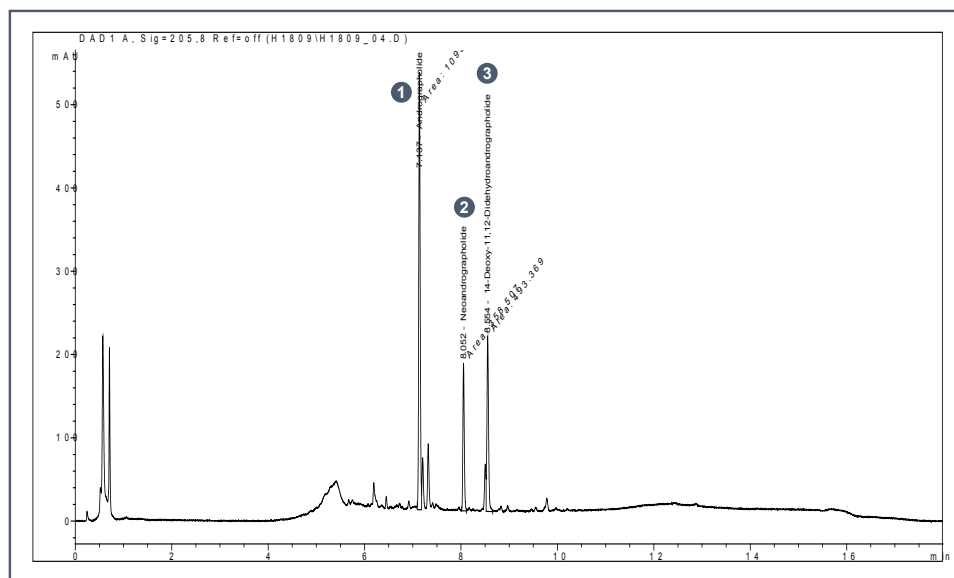
Therapeutic Use Overview:

Andrographis paniculata is used in the traditional Indian medicines of Siddha and Ayurveda as well as in other countries. It is widely cultivated in southern Asia, where it is used to treat infections and some diseases. Mainly the leaves and roots are used for medicinal purposes.

The plant extract exhibits antityphoid and antifungal activities. It is also reported to possess antihepatotoxic, antibiotic, antimalarial, antihepatitic, antithrombogenic, antiinflammatory, antityphoid, antifungal activities, and antipyretic properties to mention a few, besides its general use as an immunostimulant agent.



Representative HPLC Analysis: Mixed Standard Solution



Analytes:

① Andrographolide, ② Andrographolide, Neo, ③ 14-Deoxy-11, 12-Didehydroandrographolide

Instrument Parameters

Column: Phenomenex Luna C18(2)
-HST, 100 x 2.0 mm, 2.5 μm

Detection: UV-Vis, 205 nm

Flow Rate: 0.5 mL/min

Injection Volume: 3 μL

Temperature: 50 °C

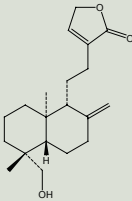
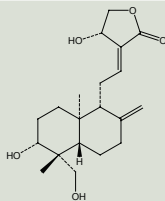
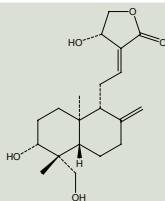
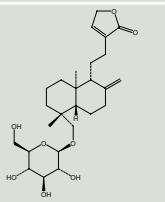
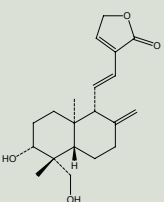
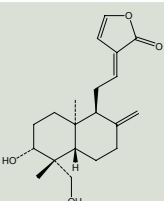
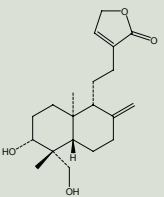
Mobile Phase A: ACN

Mobile Phase B: H₂O

Gradient Program

Time (min)	%A	%B
0	5	95
1	5	95
9	75	25
10	95	5
13	95	5
14	5	95
18	5	95

Phytochemical Reference Standards

Product Description And Details	Product ID	Qty
 <p>Andrograpanin Grade: SH CAS#: [82209-74-3] Chemical Formula: $C_{20}H_{30}O_3$ FW: 318.45</p>	ASB-00001754-005 ASB-00001754-010	5mg 10mg
 <p>Andrographolide Grade: P CAS#: [5508-58-7] Chemical Formula: $C_{20}H_{30}O_5$ FW: 350.45</p>	ASB-00001756-005 ASB-00001756-010 ASB-00001756-025	5mg 10mg 25mg
 <p>Andrographolide Grade: RG CAS#: [5508-58-7] Chemical Formula: $C_{20}H_{30}O_5$ FW: 350.45</p>	ASB-00001755-001 ASB-00001755-050 ASB-00001755-100	1mg 50mg 100mg
 <p>Andrographolide, Neo Grade: SH CAS#: [27215-14-1] Chemical Formula: $C_{26}H_{40}O_8$ FW: 480.59</p>	ASB-00001759-005 ASB-00001759-010 ASB-00001759-025	5mg 10mg 25mg
 <p>Deoxy-11,12-Didehydroandrographolide, 14- Grade: SH CAS#: [42895-58-9] Chemical Formula: $C_{20}H_{28}O_4$ FW: 332.43</p>	ASB-00004155-005 ASB-00004155-010 ASB-00004155-025	5mg 10mg 25mg
 <p>Andrographolide, Dehydro Grade: RG CAS#: [134418-28-3] Chemical Formula: $C_{20}H_{28}O_4$ FW: 332.43</p>	ASB-00001757-005 ASB-00001757-010	5mg 10mg
 <p>Andrographolide, Deoxy Grade: SH CAS#: [4176-97-0] Chemical Formula: $C_{20}H_{30}O_4$ FW: 334.45</p>	ASB-00001758-005 ASB-00001758-010	5mg 10mg

Reference Standard Kits

Product Name	Contents	Product ID	Qty
Andrographis Standards Kit (P)	Andrograpanin (SH)	KIT-00001760-005	4 x 5mg vials
	Andrographolide (P)	KIT-00001760-010	4 x 10mg vials
	Andrographolide, Neo (SH)		
	Deoxy-11,		
	12-Didehydroandrographolide,		
	14- (SH)		

Botanical Reference Materials

Product Description	Grade	Product ID	Qty
Creat (Andrographis paniculata) Aerial Parts	VBRM	ASB-00031074-005	5g