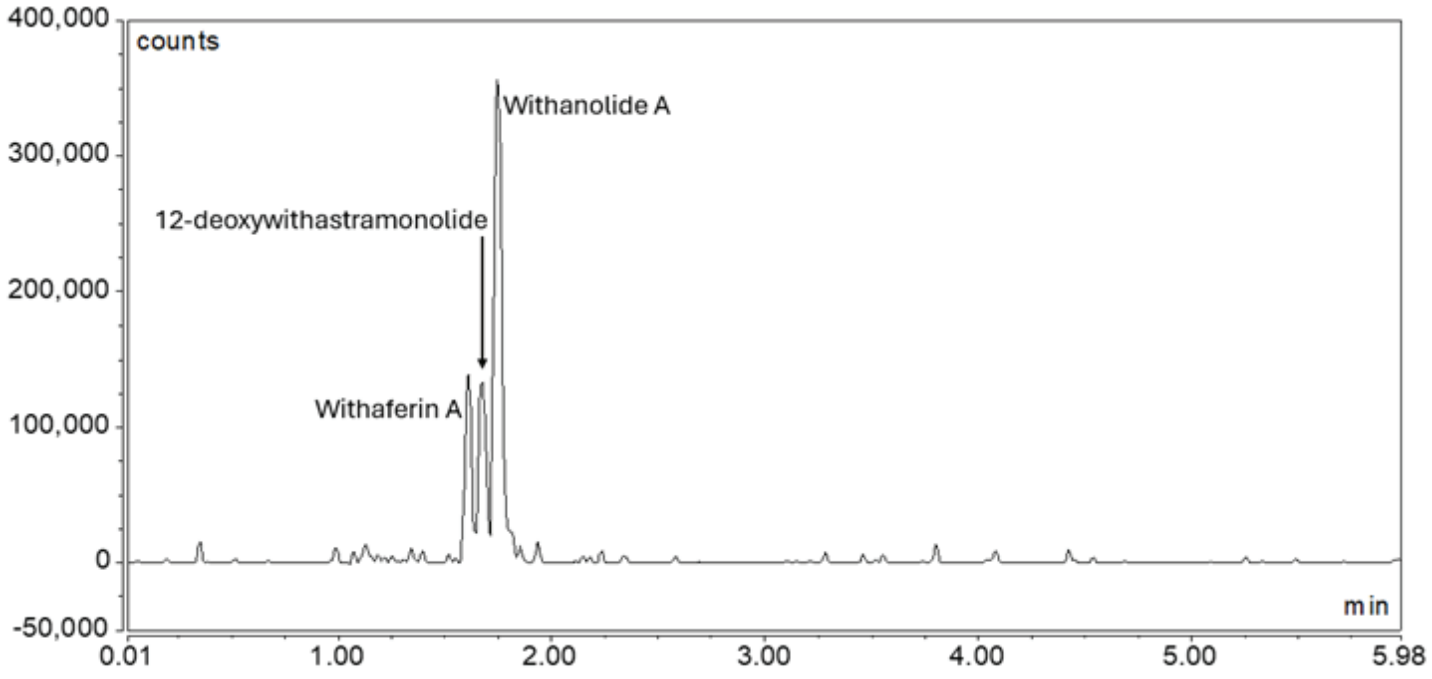
CERTIFICATE of ANALYSIS

Withania somnifera (Ashwagandha) Aqueous Methanol Extract

Item No.:	43251
Batch No.:	0805296
Expiry Date:	28MAY2027 (valid from date of certification)
Supplied as:	7 mg/ml solution in 8:2, methanol:water
Storage & Handling:	Store upright and unopened at -20°C. Warm to room temperature prior to opening.

Quality Information

Test	Specification	Result
Metabolite Presence, LC-MS	All Analytes Detected	Pass



Approval: Title: Manager, Analytical Chemistry Certification Date: 28MAY2025

Cayman Chemical certifies that this product meets the specifications stated in this certificate and warrants this product to meet the stated acceptance criteria through the expiry date when stored unopened as recommended.

CERTIFICATE of ANALYSIS

Quality Control Table

Metabolite Name	Item No.	RT (min)	m/z	Ion
Withaferin A	11352	1.58	488.3	$[M+NH_4]^+$
12-Deoxywithastramonolide	11669	1.67	488.3	$[M+NH_4]^+$
Withanolide A	11797	1.73	488.3	$[M+NH_4]^+$
LC-MS Conditions: Vanquish Flex – ISQ-EM				
Mobile Phase A: 90:10 Water:Acetonitrile (v/v), 10 mM ammonium acetate				
Mobile Phase B: 10:90 Water:Acetonitrile (v/v), 10 mM ammonium acetate				
Column: Kinetex EVO-C18, 2.1 x 50 mm, 2.7 µm		Flow Rate: 0.7 ml/min		
Gradient: 0 min, 0%B; 3 min, 100%B; 4 min, 100%B; 4.1 min, 0%B; 6 min, 0%B				
Positive Electrospray Ionization				

CERTIFICATE of ANALYSIS

Revision History

Revision No.	Date	Reason for Revision
01	28MAY2025	Initial version

Disclaimers

Material Safety Data

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some but not all of the information required for the safe and proper use of this material. Before use, review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

Warranty and Limitation of Remedy

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer's exclusive remedy and Cayman's sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman's option, the replacement, at no cost to Buyer, of all material that does not meet our specification.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver of Buyer of all claims hereunder with respect to said material.
For further details, please refer to our Warranty and Limitations of Remedy located on our website and in our catalog.

This Certificate shall not be reproduced except in full, without written approval from the Cayman Chemical Company.

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