

POTENCY TESTING REPORT

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Withanolide Content Analysis by HPLC

Laboratory Information	
Testing Laboratory:	[REDACTED - Certified Analytical Lab]
Accreditation:	ISO/IEC 17025:2017
Report Number:	PT-606562
Test Date:	2024-10-19
Report Date:	2024-10-21

Sample Information	
Product:	Ashwagandha KSM-66® Extract
Strength:	600mg per capsule
Batch Number:	[REDACTED]
Sample ID:	S-90081
Matrix:	Root Extract Powder

Analyte	Method	Specification	Result	Status
Total Withanolides	HPLC-UV	≥ 5.0%	5.2%	PASS
Withaferin A	HPLC-UV	≤ 0.5%	0.3%	PASS
Withanolide A	HPLC-UV	Report	1.8%	N/A
Withanolide B	HPLC-UV	Report	1.1%	N/A

12-Deoxy-withastramonolide	HPLC-UV	Report	0.9%	N/A
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Analytical Method:

- Instrument: High-Performance Liquid Chromatography with UV Detection (HPLC-UV)
- Column: C18 Reverse Phase, 250mm x 4.6mm, 5µm particle size
- Mobile Phase: Gradient elution with acetonitrile and water
- Detection: UV absorbance at 227 nm
- Reference Standard: Withanolide A (USP Reference Standard)

Conclusion: Total withanolide content meets the specification of $\geq 5.0\%$. Product demonstrates consistent potency and PASSES potency testing.

Analyzed By: [SIGNATURE REDACTED]

Analytical Chemist: [NAME REDACTED]

Date: 2025-11-11