

Laboratory Analysis Report – Herbal Batch

September 20, 2025

Report ID: ARL/PHYTO/2025-091
Batch ID: BATCH1

Sample Details

Collector: Farmer A
Species: Ashwagandha (*Withania somnifera*)
Batch Location: Latitude 28.6139, Longitude 77.2090
Collection Date: September 19, 2025
Batch Quality: High

Physical Evaluation

Appearance: Clean, dried Ashwagandha roots
Color: Pale brown
Odor: Characteristic earthy aroma
Moisture Content: 7.8% (within acceptable range $\leq 10\%$)

Phytochemical Analysis

Withanolide Content: 2.3% (minimum standard $\geq 1.5\%$)
Alkaloids: 4.6 mg/g (minimum standard ≥ 3.0)
Saponins: 1.2% (minimum standard ≥ 1.0)
Microbial Load: ≤ 100 CFU/g (limit ≤ 500 CFU/g)
Heavy Metals: Within WHO permissible limits

Safety Compliance

Pesticide Residues: Not detected
Heavy Metals: Below permissible limits
Microbial Safety: Passed standards

Conclusion

This batch of *Ashwagandha* root meets the quality and safety requirements for use in Ayurvedic formulations. It complies with WHO and AYUSH recommended standards

and is suitable for medicinal use under professional supervision.

Authorized By

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