

# 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  $\geq 3.0$ )  
Saponins: 1.2% (minimum standard  $\geq 1.0$ )  
Microbial Load:  $\leq 100$  CFU/g (limit  $\leq 500$  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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Head, Phytochemistry Division

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