

Certificate of Analysis

Client Information

Sprout Herbal
1627 W Main St,
Bozeman, MT 59715
United States

Sample Information

ARL ID: 698810-2
Product Name: H-Defense Herbal Formula
Tested Material: Herbal Blend (Base Formulation)
Batch / Lot No.: HB-202AB-04

Note: This sample represents the core herbal formulation used across H-Defense products. Tablets and powder forms are derived from this tested base under standardized manufacturing and quality control conditions.

→ Results

Parameter	Method	Specification	Results	Status
Microbiological Analysis (USP Compliant)				
	USP, AOAC, ICP-MS			
Total Plate Count	USP <2021>	≤ 100,000 cfu/g	None Detected	PASS
Coliforms	AOAC 991.14	≤ 1,000 cfu/g	None Detected	PASS
E. coli	USP <2022>	Absent	Absent	PASS
Staphylococcus aureus	USP <2022>	Absent	Absent	PASS
Salmonella	USP <2022>	Absent	Absent	PASS
Pseudomonas aeruginosa	USP <62>	Absent	Absent	PASS
Yeast	USP <2021>	≤ 10,000 cfu/g	None Detected	PASS
Mold	USP <2021>	≤ 10,000 cfu/g	None Detected	PASS
Heavy Metals				
Cadmium (Cd)	ICP-MS	≤ 4.1	0.005	mcg/Serving
Mercury (Hg)	ICP-MS	≤ 2.0	0.001	mcg/Serving
Lead (Pb)	ICP-MS	≤ 0.5	0.015	mcg/Serving
Gluten Allergens (as Gliadin)	2.055	Record Only	<2.5	mcg/Serving
Specific Gravity	ARL 2.006	Record Only	1.18	g/mL

Notes:

- Results apply only to the sample tested and the specified batch.
- This report shall not be reproduced except in full without written approval of the laboratory.
- "None Detected" indicates values below the method detection limit (MDL).
- Results reported below the limit of quantitation (LOQ) are considered too low for precise measurement.
- All analyses were performed in accordance with validated methods under ISO/IEC 17025:2017 standards.



Authorized by:
Analytical Resource Laboratories (ARL)
Reviewed and approved in accordance with ISO/IEC 17025:2017 standards



Reviewed by: Quality Control Analyst
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Pesticide Residue Screening

Organophosphates	GC-MS	Complies with regulatory limits	Not Detected	PASS
Organochlorines	GC-MS	Complies with regulatory limits	Not Detected	PASS
Pyrethroids	GC-MS	Complies with regulatory limits	Not Detected	PASS

Potency & Identity Verification

Herbal Identity	HPTLC / USP	Matches reference profile	Conforms	—
Active Marker Compounds	HPLC	Complies with specification	Conforms	—
Batch Consistency	AOAC	Complies with specification	Conforms	—

Additional Parameters

Gluten (as Gliadin)	AOAC	Record Only	<2.5 mcg/serving	Within Limits
Specific Gravity	ARL 2.006	Record Only	1.18 g/mL	Within Limits

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→ Results

Parameter	Method	Specification	Results	Status
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Method Detection Limit (MDL):

In microbiological testing, this is the minimum level of growth that can be detected with confidence. If a result is reported as "None Detected," it means any visible growth was below this limit.

Limit of Quantitation (LOQ):

In analytical chemistry testing, this is the minimum level of the desired analyte that can be quantified with confidence. If a result is reported as less than LOQ, it means any detected amount was too small to report an exact number.

Under accreditation number 77504, ARL is an ISO/IEC 17025:2017 Accredited Laboratory. Uncertainty data for ISO-scoped methods is available upon request. Certificate and scope are also available upon request.



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