

# CERTIFICATE OF ANALYSIS

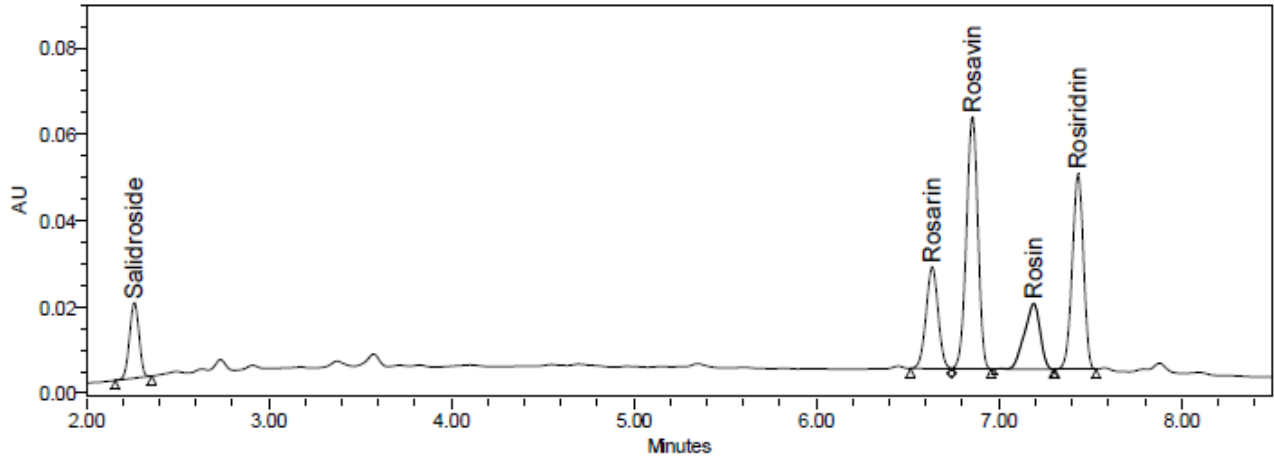


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**Report Issued To:** Lost Empire Herbs  
8301 NW 101st Ter.  
Kansas City MO 64153-2321  
United States

**Sample Name:** Rhodiola  
**Description:** Powdered extract; Fine reddish-brown powder  
**Lot #:** BPRHOD26MAR24  
**AL #:** 24092LBV\_1  
**Analysis ID:** 225731  
**Received:** 04/01/24

## Determination of Rosavins and Salidroside Content by UPLC



Ret. Time (min)	Compound Name	Amount As Is (%)	Amount Dried Basis (%)	Specification	Result
2.3	Salidroside	1.218	1.259	N/A	N/A
6.6	Rosarin	0.794	0.821	N/A	N/A
6.9	Rosavin	1.870	1.933	N/A	N/A
7.2	Rosin	0.667	0.690	N/A	N/A
	Total Rosavins	3.331	3.444	Report Only	N/A

### Chromatographic Conditions:

Method: ATM-815-0322  
Column: AP374 Luna 2.5µm C18(2)-HST (100 x 3.0 mm)  
Temperature: 40°C  
Flow Rate: 1 mL/min  
Injection Volume: 1 µL  
UV Detection: 205 nm  
Mobile Phase: Water  
Acetonitrile  
HPLC Instrument: UPLC\_2

### Sample Preparation:

Transferred approximately 100 mg into a 25 mL volumetric flask and added 20 mL of methanol. Sonicated 30 mins at room temperature. Let cool and filled to volume with methanol. Filtered through a 0.45 µm PTFE syringe filter into HPLC vial for analysis.

### Report Summary:

Conclusion: This "Rhodiola" test sample contains 1.26% salidroside and 3.44% total rosavins on the dried basis.  
OOS Reference: N/A  
Loss On Drying: 3.28%  
Notebook Reference: 09524 Rosavins

**Analysis Date :** 04/05/24

**Analyzed By:** L Gamez

**Authorized By:** Celine Decasiano,  
Analytical Chemistry Supervisor

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