

Certificate Issued To:
Mountain Rose Herbs
12661 Hoover St
Garden Grove, CA 92841
USA



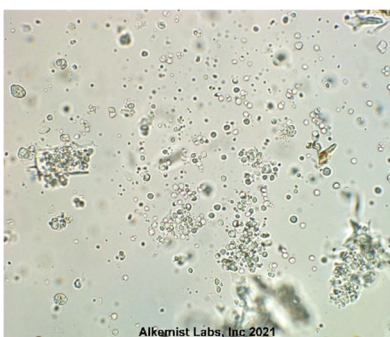
Work performed at:
Alkemist Labs
12661 Hoover Street
Garden Grove, CA 92841
714-754-HERB (4372)
sales@alkemist.com

Certificate of Analysis: Goldenseal Root (25522-C)
Microscopy with Digital Photo-Documentation

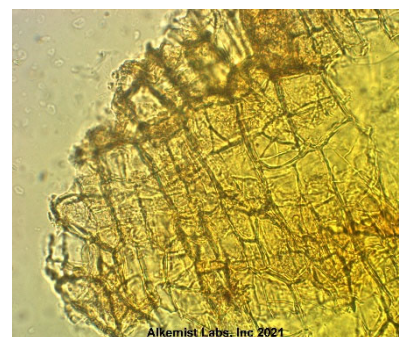
1



2



3



Company Name: Mountain Rose Herbs
Title: Goldenseal Root
Plant Part: Root
Sample Received: 4/28/2021
Sample Description: Clear Reclosable Plastic Bag
Form of Botanical: cut and sifted
Appearance: (1) Yellow/green/brown cut and sifted root pieces
Lot : 25522-C
Sample : 21118RZV_1
Latin Name: Hydrastis canadensis L. [Ranunculaceae]
Reference Sample : M20109CRB Hydrastis canadensis L. [Ranunculaceae] authenticated by macroscopic, microscopic &/or TLC studies according to the reference sources cited below; held at Alkemist Labs, Garden Grove, CA.
Analyst: E. Sudberg & I. Solorzano
Magnification: (2) 400X
Chemical Reagents: (2) acidified chloral hydrate glycerol solution
Sample Findings: (2) starch granules
Magnification: (3) 400X
Chemical Reagents: (3) acidified chloral hydrate glycerol solution
Sample Findings: (3) cork cells
Reference Source: AHP Monograph: Goldenseal; Homeopathic Pharmacopoeia, 5th Supplement; AHP Monograph: Goldenseal MIC-SOP-54-04, MIC-SOP-54-05, MIC-SOP-54-06, MIC-SOP-510-07

Comments & Conclusions: This sample has characteristics of *Hydrastis canadensis* L. [Ranunculaceae] rhizome and root based on comparison with an authenticated reference sample and the characteristics described in the references cited above. The characteristic cellular structures identified in this sample are the starch granules seen in micrograph (2) above. In micrograph (3) we see the cork cells. **This test sample, Goldenseal Root (25522-C), has characteristics of *Hydrastis canadensis* L. [Ranunculaceae] rhizome and root.**
NOTE: The presence of soluble excipients and other plant species material was not detected in this test sample.

Analyzed by: Iris Solorzano
Examined, Reviewed & Authorized by: Élan M Sudberg, CEO

Report Date: 5/4/2021



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