Certificate Issued To:

Dietary Supplement Company
1234 Main Street
Los Angeles, CA 90000
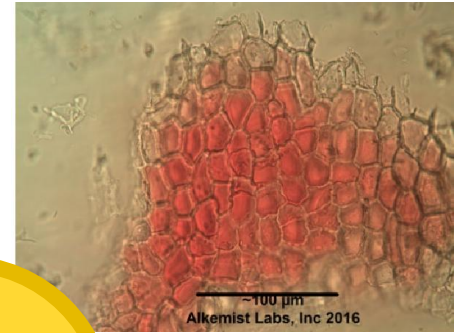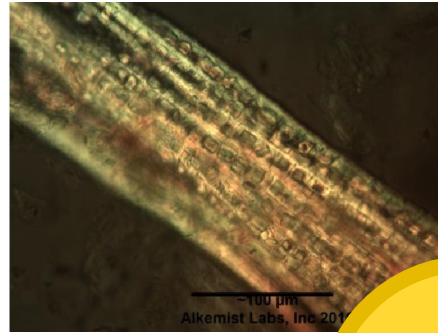
Certificate of Analysis: Buckthorn Bark (ABCDEFG)
Macroscopy & Microscopy with Digital Photo-Documentation

1   **2**   **3**

Example Report

Company Name:	Dietary Supplement Company
Title:	Buckthorn Bark
Plant Part:	bark
Sample Received:	01/01/2016
Sample Description:	Clear Whirl-Pak
Form of Botanical:	crude plant powder
Appearance:	(1) fine brown powder
Lot:	ABCDEFG
Sample:	12345
Latin Name:	Rhamnus frangula L. (Frangula alnus Miller)
Reference Sample:	JL24515CRB Rhamnus frangula L. (Frangula alnus Miller) authenticated by macroscopic, microscopic &/or TLC studies according to the reference sources cited below; held at Alkemist Labs, Costa Mesa, CA.
Analyst:	E. Sudberg & N. Popejoy
Magnification:	(2) 400X
Chemical Reagents:	(2) acidified chloral hydrate glycerol solution
Sample Findings:	(2) phloem fibers, partially lignified, in groups with crystal sheaths
Magnification:	(3) 400X
Chemical Reagents:	(3) acidified chloral hydrate glycerol solution
Sample Findings:	(3) reddish-brown fragments of cork
Reference Source:	British Pharmacopoeia, 2015
	MIC-SOP-54-04, MIC-SOP-54-05, MIC-SOP-54-06, MIC-SOP-510-07

Comments & Conclusions: This sample is representative of Rhamnus frangula L. (Frangula alnus Miller) bark based on an authenticated reference sample and the consistent characteristic cellular structure of bark as well as the references cited above. The characteristic cellular structures identified in this sample are the phloem fibers, partially lignified, in groups with crystal sheaths seen in micrograph (2) above. In micrograph (3) we see the reddish-brown fragments of cork. **This test sample, Buckthorn Bark (ABCDEFG), is consistent with the microscopic characteristics of the reference samples of Rhamnus frangula L. (Frangula alnus Miller) used above & is characteristic of Rhamnus frangula L. (Frangula alnus Miller) bark.**
NOTE: The presence of soluble excipients and other plant species material was not detected in this test sample.

Analyzed by: Nicholas Popejoy
Examined, Reviewed & Authorized by: Élan M Sudberg, CEO & Microscopist, Alkemist Labs   Report Date: 01/10/2016

ISO/IEC 17025

A2LA ACCREDITED
CERTIFICATE #3851.01