

Certificate Issued To:

American Herbal Products Association
8630 Fenton Street, Suite 918
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Work performed at:
Alkemists Pharmaceuticals Inc.
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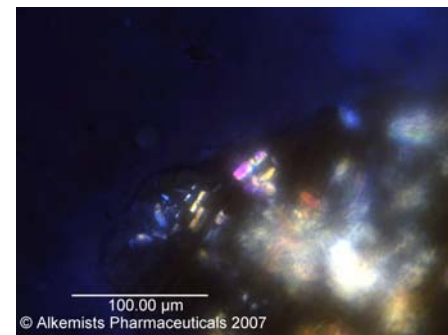
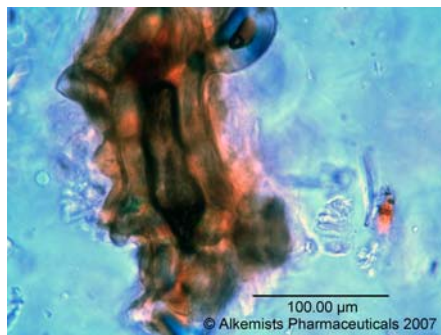
Certificate of Analysis: *Illicium verum* fruit

Macroscopy & Microscopy with Digital Photo-Documentation

1

2

3



Company Name:	American Herbal Products Association
Title:	<i>Illicium verum</i>
Plant Part:	fruit
Sample Received:	4/6/2007
Sample Description:	~8g in a zip locked bag
Form of Botanical:	whole/dry
Appearance:	(1) brown/orange fragments of composite fruits with long slender follicles
Lot #:	
Sample #:	MT09607CHR
Latin Name:	<i>Illicium verum</i> Hook. f. [Illiciaceae]
Reference Sample #:	MT16604AHP1; MT13506CS1 <i>Illicium verum</i> Hook. f. [Illiciaceae], MU16604AHP <i>Illicium anisatum</i> L authenticated by macroscopic, microscopic &/or TLC studies according to the reference sources cited below held at Alkemists Pharmaceuticals, Costa Mesa, CA.
Examiner:	EMS
Magnification:	(2) 400X
Chemical Reagents:	(2) acidified chloralhydrate glycerol solution
Sample Findings:	(2) large astroscleroid
Magnification:	(2) 400X
Chemical Reagents:	(3) acidified chloralhydrate glycerol solution
Sample Findings:	(3) rhomboidal or rectangular crystals of calcium oxalate
Reference Source:	British Pharmacopoeia, 2003; Herbal Drugs and Phytopharmaceuticals, Max Wicthl, 3rd ed., 2004 USP-PF, Vol. 27(2) [Mar.-Apr. 2001]; Official Methods of Analysis of AOAC, 16 th Ed.

Comments & Conclusions:

This sample is representative of *Illicium verum* fruit based on authenticated reference samples and the consistent characteristic cellular structure of a fruit as well as the references cited above. The characteristic cellular structures identified in this sample are the large astroscleroid seen in micrograph (2) above. In micrograph (3) we see the rhomboidal or rectangular crystals of calcium oxalate. This test sample, *Illicium verum* is consistent with the microscopic characteristics of the reference samples of *I. verum* used above & is characteristic of *I. verum* fruit.

NOTE: Significant differences found between *I. verum* and *I. anisatum* are the macroscopic variations as well as the lack of large astroscleroids in *I. anisatum*.

Analyzed by: Élan M Sudberg

Authorized by: Sidney Sudberg, Director, Alkemists Pharmaceuticals

Report Date: 4/25/2007

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