Certificate Issued To:

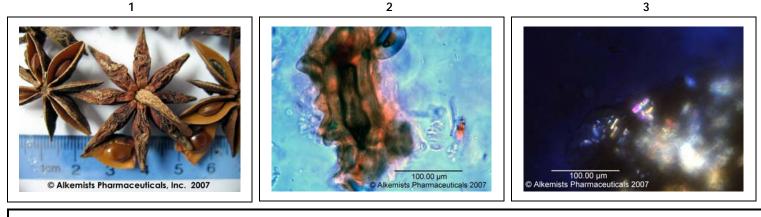
American Herbal Products Association 8630 Fenton Street, Suite 918 Silver Springs, MD 20910



Work performed at: **Alkemists Pharmaceuticals Inc.** 1260 Logan Ave B3 Costa Mesa, CA 92626 714-754-HERB (4372) 714-668-9972 (FAX) E-mail: info@alkemist.com Web Site: www.alkemist.com

Certificate of Analysis: Illicium verum fruit

Macroscopy & Microscopy with Digital Photo-Documentation



Company Name:	American Herbal Products Association
Title:	Illicium verum
Plant Part:	fruit
Sample Received:	4/6/2007
Sample Description:	~8g in a zip locked bag
Form of Botanical:	whole/dry
Appearance: Lot #:	(1) brown/orange fragments of composite fruits with long slender follicles
Sample #:	MT09607CHR
Latin Name:	Illicium verum 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 chloral hydrate glycerol solution
Sample Findings:	(2) large astrosclereid
Magnification:	(2) 400X
Chemical Reagents:	(3) acidified chloral hydrate glycerol solution
Sample Findings:	(3) rhomboidal or rectangular crystals of calcium oxalate
Reference Source:	British Pharmacopoeia, 2003;
	Herbal Drugs and Phytopharmaceuticals, Max Wichtl, 3rd ed., 2004
	USP-PF, Vol. 27(2) [MarApr. 2001]; Official Methods of Analysis of AOAC, 16th Ed.
Comments & Conclusions	

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 astrosclereid 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 astrosclereids in *I. anisatum*.

Analyzed by: Élan M Sudberg

Authorized by: Sidney Sudberg, Director, Alkemists Pharmaceuticals

Report Date: 4/25/2007

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