

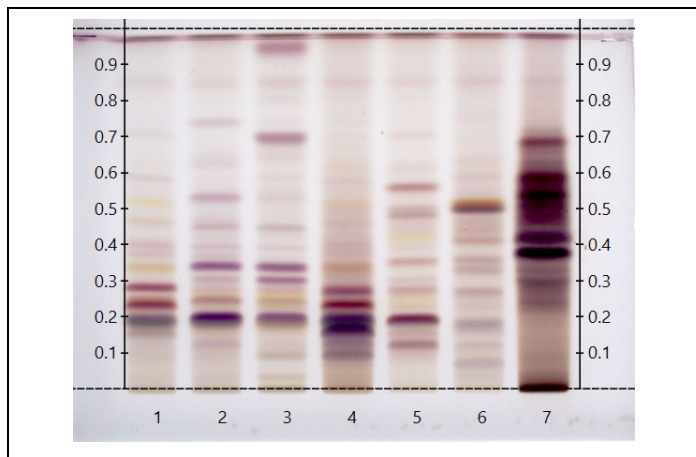
Certificate Issued To:  
Lost Empire Herbs  
8301 NW 101st Ter.  
Kansas City, MO 64153-2321  
United States



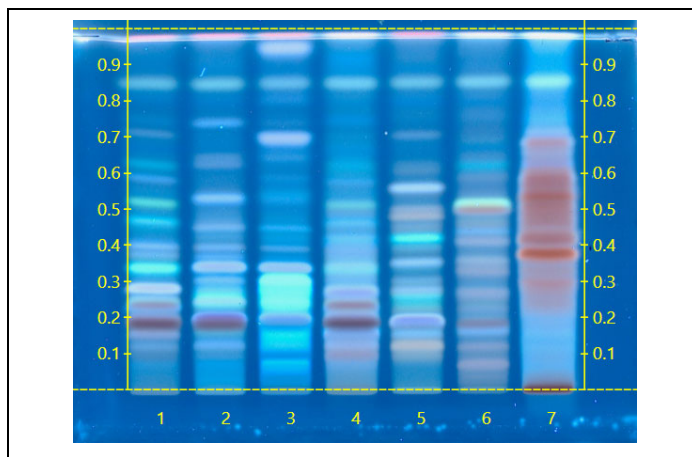
Work performed at:  
**Alkemist Labs**  
12661 Hoover Street  
Garden Grove, CA 92841  
714-754-HERB (4372)  
714-668-9972 (FAX)  
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**Certificate of Analysis: Gynostemma (BGYNO04NOV22)**  
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name: Lost Empire Herbs  
Title: Gynostemma  
Plant Part: leaf  
Sample Received: 11/21/22  
Sample Packaging: Clear Reclosable Plastic Bag  
Form of Botanical: cut and sifted  
Appearance: Dark green pieces  
Lot Number: (BGYNO04NOV22) → Lane 3(3µl)  
Sample: 22325BCA\_1  
Latin Name: *Gynostemma pentaphyllum* (Thumb.) Makino [Cucurbitaceae]  
Reference Sample: Lane 1 (3µl) (FK08514THA1) *Gynostemma pentaphyllum* (aerial part); Lane 2 (3µl) (FK09113AP1) *Gynostemma pentaphyllum* (herb); Lane 4 (3µl) (FK11706TM), Lane 5 (3µl) (FK14217CDR1), Lane 6 (3µl) (FK14902SWH) *Gynostemma pentaphyllum* (herb (leaf, stem)); Lane 7 (3µl) (FK17509PEL) *Gynostemma pentaphyllum* (leaf); held at Alkemist Labs, Garden Grove, CA.  
Analyst: A.Foult, D.Robinson, J.Mares, K.Chopra, K.Montoya, K.Tran, L.Tang, M.Fox, N.Alvarez, N.Hoang, N.Afendikova, N.Waldstreicher, P.Hoang, S.Kabbaj, S.Sudberg 189705  
Sample Preparation: 0.3g+3mL 70% grain Ethanol, sonicate/heat at 50° C for 30 min.  
Stationary Phase: Silica gel 60, HPTLC plates  
Mobile Phase: Chloroform: ethyl acetate: Methanol: Water [3/8/4.4/1.8]  
Detection: (1) 10% Sulfuric, 100°C, 2min, Vis (Reich, E., 2007)  
(2) 10% Sulfuric, 100°C, 2min, 366nm (Reich, E., 2007)  
Reference Source: Adapted from Camag Application Notes  
IDT-SOP-72-01

**Comments & Conclusions:** Lane 3 is the test sample *Gynostemma* (BGYNO04NOV22) Lanes 1, 2, 4, 5, 6, 7 are the reference samples used for comparison. This test sample, *Gynostemma* (BGYNO04NOV22) is consistent with the chromatographic profile of the reference samples of *Gynostemma* sp., used above. **This test sample *Gynostemma* (BGYNO04NOV22) has characteristics of *Gynostemma* sp., leaf.**

**NOTE:** The above conclusion may be a function of the natural variance found in botanicals &/or the extraction process used to create specific extracts. The growing and drying conditions, age, seasonal variations, geographic location, extraction solvents, etc. all play a role in the phytochemical fingerprint of botanicals as well as their extracts; hence, chromatographic variations are expected.

Examined, Reviewed & Authorized by: Syhem W Kabbaj, HPTLC Production Supervisor, Alkemist Labs

Report Date: 11/29/22

ISO/IEC 17025



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to BGYNO04NOV22. This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report is for the exclusive use of the party who requested the report and not for public dissemination or use by third parties, including for promotional purposes, without the prior written permission of Alkemist Labs, Inc. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented or abstracted in any manner. Any violation of these conditions renders the report and its results void. © 2022 Alkemist Labs, Inc. All Rights Reserved