

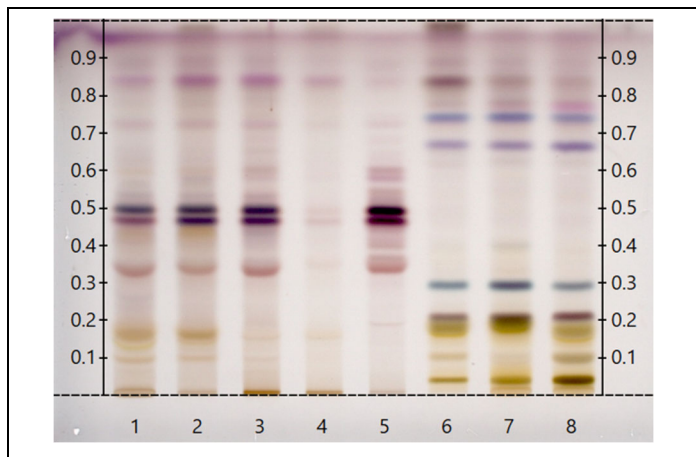
Certificate Issued To:
Lost Empire Herbs
8301 NW 101st Ter.
Kansas City, MO 64153-2321
United States



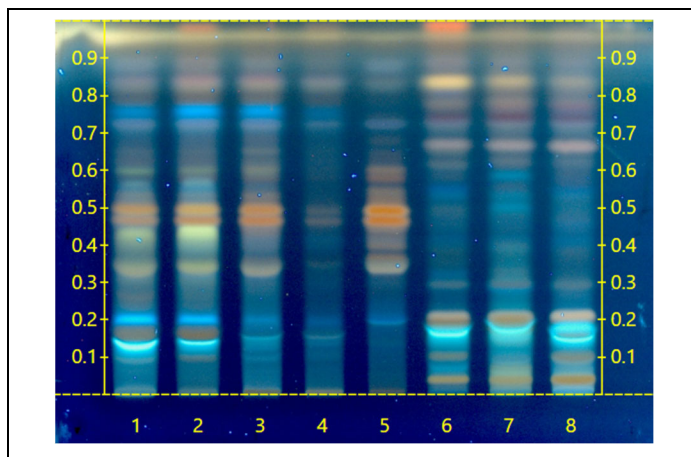
Work performed at:
Alkemist Labs
12661 Hoover Street
Garden Grove, CA 92841
714-754-HERB (4372)
714-668-9972 (FAX)
Sales@Alkemist.com
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Certificate of Analysis: Bacopa (BBACO24MAR22)
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name: Lost Empire Herbs
Title: Bacopa
Plant Part: leaf
Sample Received: 04/11/22
Sample Packaging: Clear Reclosable Plastic Bag
Form of Botanical: powdered extract
Appearance: Fine Brown Powder
Lot Number: (BBACO24MAR22) → Lane 4(0.5µl)
Sample: 22101TAD_1
Latin Name: *Bacopa monnieri* (L.) Pennell [Scrophulariaceae]
Reference Sample: Lane 1 (2µl) (UL26609PB), Lane 2(2µl) (UL21010CRB) *Bacopa monnieri* (herb); Lane 7(2µl) (DA36110SC2) *Centella asiatica* (leaf); Lane 8(2µl) (DA20109CRB) *Centella asiatica* (aerial part); held at Alkemist Labs, Garden Grove, CA.
Analyst: A.Ung, J.Mares, K.Chopra, K.Montoya, K.Tran, M.Levine, N.Carson, N.Hoang, N.Afendikova, P.Hoang, S. Kabbaj, S.Sudberg, T.Louis 174635
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: Dichloromethane: methanol: water [7/3/0.5]
Detection: (1) Vanillin/Sulfuric, 110°C, 2min, vis (Reich, E., 2007)
(2) Vanillin/Sulfuric, 110°C, 2min, 366nm (Reich, E., 2007)
Reference Source: Method Developed by Alkemist Labs
IDT-SOP-72-01

Comments & Conclusions: Lane 4 is the test sample Bacopa (BBACO24MAR22). Lanes 1, 2, 7, 8, are the reference samples used for comparison. This test sample, Bacopa (BBACO24MAR22) is consistent with the chromatographic profile of the reference samples of *Bacopa monnieri*, used above. **This test sample Bacopa (BBACO24MAR22) has characteristics of *Bacopa monnieri* herb.**

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: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs

Report Date: 04/21/22

ISO/IEC 17025



CERTIFICATE #3851.01

Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to BBACO24MAR22. 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