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

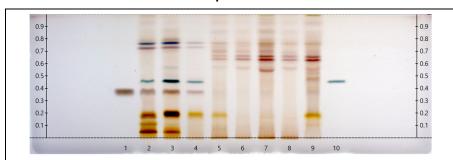


Work performed at:

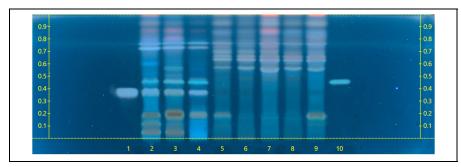
**Alkemist Labs** 

12661 Hoover Street Garden Grove, CA 92841 714-754-HERB (4372) 714-668-9972 (FAX) Sales@Alkemist.com www.Alkemist.com

## Certificate of Analysis: Bacopa (BBACO26JUN23) High Performance Thin-Layer Chromatography with Photo-Documentation



2



**Company Name:** Lost Empire Herbs

Title: Васора **Plant Part:** leaf

Appearance: brown powder

Sample Packaging: Clear Reclosable Plastic Bag

Bacopa monnieri (L.) Pennell [Scrophulariaceae] Latin Name:

Lane 2(2µI) (DA20109CRB) Centella asiatica (aerial part); Lane 3(2µI) (DA36110SC2) Centella asiatica (leaf); Lane Reference Sample:

8(2µI) (UL36110SC), Lane 9(2µI) (UL21010CRB) Bacopa monnieri (herb); held at Alkemist Labs, Garden Grove, CA. A.Foults, D.Robinson, J.Mares, K.Chopra, K.Montoya, K.Tran, L.Tang, M.Fox, N.Alvarez, N.Hoang, N.Afendikova,

Sample Received:

Form of Botanical:

Lot Number:

Sample:

08/07/23

23219HGV\_1

powdered extract

(BBACO26JUN23) →Lane 6(0.5µl)

Report Date: 08/10/23

N.Waldstreicher, P.Hoang, S.Kabbaj, S.Sudberg 206283

**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] (1) 10% Sulfuric, 100°C, 2min, Vis (Reich, E., 2007) **Detection:** (2) 10% Sulfuric, 100°C, 2min, 366nm (Reich, E., 2007)

Lane 10(2µI) Asiaticoside (00011030-131, CHR), Methanol (22K2761008, VWR); Lane 1(2µI) Madecassoside Reference Standard:

(SLCH8529, SigAI), Methanol (22K2761009, VWR)

Reference Source: HPTLC ASSOCIATION

IDT-SOP-72-01

Comments & Conclusions: Lane 6 is the test sample Bacopa (BBACO26JUN23). Lanes 2, 3, 8, 9, are the reference samples used for comparison. This test sample, Bacopa (BBACO26JUN23) is consistent with the chromatographic profile of the reference samples of Bacopa monnieri, used above. This test sample Bacopa (BBACO26JUN23) has characteristics of Bacopa monnieri 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: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs



Analyst:

Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to BBACO26.JUN23.