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

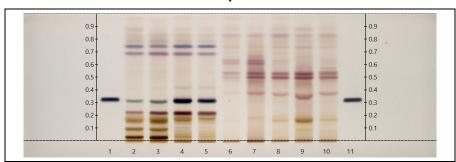


Work performed at:

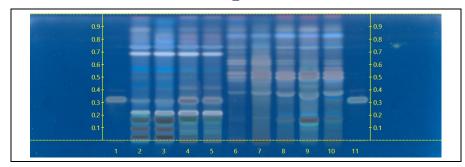
Alkemist Labs

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 (BBACO31OCT23) High Performance Thin-Layer Chromatography with Photo-Documentation



2



Company Name: Lost Empire Herbs

Title: Васора **Plant Part:** entire

Appearance: brown powder

Sample Packaging: Clear Reclosable Plastic Bag

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

Lane 2(2µl) (DA20909MRH) Centella asiatica (herb); Lane 3(2µl) (DA20109CRB) Centella asiatica (aerial part); Lane Reference Sample:

9(2µl) (UL26609PB), Lane 10(2µl) (UL21107AHP) Bacopa monnieri (herb); held at Alkemist Labs, Garden Grove, CA. N.Afendikova, N.Alvarez, K.Chopra, A.Foults, M.Fox, N.Hoang, P.Hoang, R.Islam, S.Kabbaj, J.Mares, K.Montoya,

Sample Received:

Form of Botanical:

Lot Number:

Sample:

12/08/23

23342YYN_1

powdered extract

(BBACO31OCT23) →Lane 6(0.5µl)

Report Date: 12/14/23

S.Sudberg, L.Tang, K.Tran, N.Waldstreicher 217123

Sample Preparation: 0.3g+3mL 70% grain Ethanol, sonicate/heat at 50° C for 30 min.

Silica gel 60, HPTLC plates **Stationary Phase:**

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)

Lanes 1(3µI) and 11(3µI) Asiaticoside (00011030-131, CHR), Methanol (224277, FSc) Reference Standard:

Reference Source: HPTLC ASSOCIATION

IDT-SOP-72-01

Comments & Conclusions: Lane 6 is the test sample Bacopa (BBACO31OCT23) Lanes 2, 3, 9, 10 are the reference samples used for comparison. This test sample, Bacopa (BBACO31OCT23), is consistent with the chromatographic profile of the reference samples of Bacopa monnieri used above. This test sample Bacopa (BBACO31OCT23) has characteristics of a customized extract derived from Bacopa monnieri

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: Nam Hoang, HPTLC, R&D Lead Chemist, 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 BBACO31OCT23.