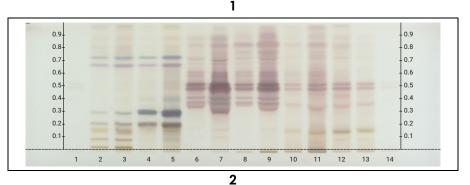
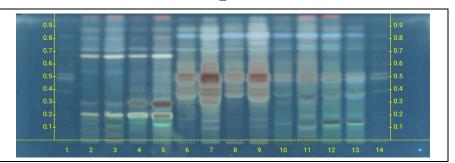
Certificate Issued To: Lost Empire Herbs 8301 NW 101st Ter. Kansas City, MO 64153-2321 Untied States



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

<u>Certificate of Analysis:</u> Bacopa (BBACO27MAR24) High Performance Thin-Layer Chromatography with Photo-Documentation





Company Name: Lost Empire Herbs Sample Received: 04/08/24 Title: Васора Form of Botanical: powdered extract Lot Number: **Plant Part:** leaf (BBACO27MAR24) →Lanes 10(0.5µl), 11(2µl) Appearance: Fine pale olive powder Sample: 24099NYM_1 Clear Reclosable Plastic Bag Sample Packaging: Bacopa monnieri (L.) Pennell [Scrophulariaceae] Latin Name: **Reference Sample:** Lane 2(2µl) (DA20909MRH) Centella asiatica (herb); Lane 3(2µl) (DA20109CRB) Centella asiatica (aerial part); Lane 12(2µl) (UL21010CRB), Lane 13(2µl) (UL26609PB) Bacopa monnieri (herb); held at Alkemist Labs, Garden Grove, CA. Analyst: N.Afendikova, N.Alvarez, K.Chopra, J.Congjuico, A.Foults, A.Hernandez, N.Hoang, R.Islam, S.Kabbaj, J.Mares, M.Nguyen, S.Sudberg, L.Tang, K.Tran 227828 0.3g+3mL 70% grain Ethanol, sonicate/heat at 50° C for 30 min. Sample Preparation: **Stationary Phase:** Silica gel 60, HPTLC plates Mobile Phase: Dichloromethane: Methanol: Water [7/3/0.5] Detection: (1) 10% Sulfuric, 100°C, 2min, Vis (Reich, E., 2007) (2) 10% Sulfuric, 100°C, 2min, 366nm (Reich, E., 2007) **Reference Standard:** Lanes 1 (3µl) and 14(3µl) Powdered Bacopa Extract (F0J416, USP), Methanol (23G1961051, VWR) HPTLC ASSOCIATION **Reference Source:** IDT-SOP-72-01

<u>Comments & Conclusions:</u> Lanes 10, 11 are the test sample Bacopa (BBACO27MAR24). Lanes 2, 3, 12, 13, are the reference samples used for comparison. This test sample, Bacopa (BBACO27MAR24) is consistent with the chromatographic profile of the reference samples of Bacopa monnieri, used above. This test sample Bacopa (BBACO27MAR24) 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: Nam Hoang, HPTLC, R&D Lead Chemist, Alkemist Labs

Report Date: 05/01/24

Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to BBACO27MAR24.

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