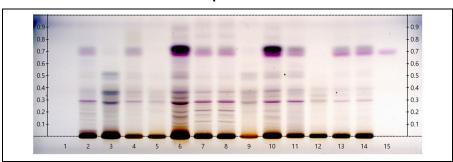
Certificate Issued To: Lost Empire Herbs 8301 NW 101st Ter. Kansas City, MO 64153-2321 **Untied States**



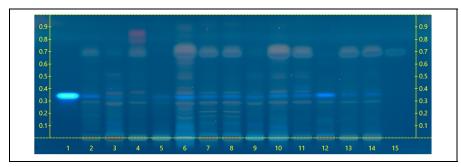
Work performed at: **Alkemist Labs**

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

Certificate of Analysis: Nettle Root (BNETR17JUL23) High Performance Thin-Layer Chromatography with Photo-Documentation



2



Company Name: Lost Empire Herbs Title: Nettle Root

Plant Part: Appearance: light brown powder

Sample Packaging: Clear Reclosable Plastic Bag

Urtica dioica L. [Urticaceae] Latin Name:

Lane 2(5µl) (WC31508TLF), Lane 3(5µl) (WC27216AHP2) Urtica dioica (leaf); Lane 11(5µl) (WC27216AHP1), Lane Reference Sample:

12(5µI) (WC00507PB), Lane 13(5µI) (WC05416NC1), Lane 14(5µI) (WC28918NC1) Urtica dioica (root); held at

Sample Received:

Form of Botanical:

Lot Number:

Sample:

08/07/23

23219TMJ_1

powdered extract

(BNETR17JUL23) →Lane 9(10µl)

Report Date: 08/10/23

Alkemist Labs, Garden Grove, CA.

Analyst: A.Foults, D.Robinson, J.Mares, K.Chopra, K.Montoya, K.Tran, L.Tana, M.Fox, N.Alvarez, N.Hoana, N.Afendikova,

N.Waldstreicher, P.Hoang, S.Kabbaj, S.Sudberg 206335

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

Stationary Phase: Silica gel 60, HPTLC plates

Mobile Phase: Toluene: Ethyl Formate: Formic Acid [5/4/1]

Detection: (1) Vanillin/Sulfuric, 110°C, 2min, vis (Reich, E., 2007) (2) Vanillin/Sulfuric, 110°C, 2min, 366nm (Reich, E., 2007)

Reference Standard: Lane 15(3μl) β-Sitosterol (0000120099, SigAl), Methanol (22/2061037, VWR); Lane 1(0.5μl) Scopoletin (YKODK-YA,

VWR), Methanol (22L2761003, VWR)

Reference Source: Method Developed by Alkemist Labs

IDT-SOP-72-01

Comments & Conclusions: Lane 9 is the test sample Nettle Root (BNETR17JUL23). Lanes 2, 3, 11, 12, 13, 14, are the reference samples used for comparison. This test sample, Nettle Root (BNETR17JUL23) has characteristics of the chromatographic profile of the reference samples of Urtica dioica, used above. This test sample Nettle Root (BNETR17JUL23) indicates the presence of Urtica dioica root.

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



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to BNFTR17.JUL23.