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



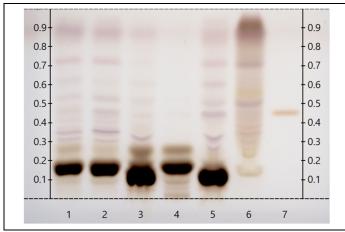
Work performed at: **Alkemist Labs**

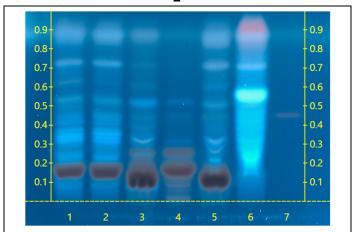
12661 Hoover Street Garden Grove, CA 92841 714-754-HERB (4372) 714-668-9972 (FAX) Sales@Alkemist.com www.Alkemist.com

<u>Certificate of Analysis:</u> Beet Powder (BBEET07FEB23)

High Performance Thin-Layer Chromatography with Photo-Documentation

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Company Name: Lost Empire Herbs Title: Beet Powder

Plant Part: root Sample Received: 02/21/23

Sample Packaging: Clear Reclosable Plastic Bag

Form of Botanical: powdered extract

Appearance: Granular dark red-purple powder Lot Number: (BBEET07FEB23) → Lane 3(5μl)

Sample: 23052XEV_1

Latin Name: Beta vulgaris L. [Chenopodiaceae]

Reference Sample: Lane 1(5µl) (XF21009PB), Lane 2(5µl) (XF03316SIL1) Beta vulgaris (root); Lane 6(3µl) (21298JNP) Beta vulgaris (leaf);

held at Alkemist Labs, Garden Grove, CA.

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

N.Waldstreicher, P.Hoang, S.Kabbaj, S.Sudberg 194555 0.3g+3mL Methanol, sonicate/heat at 50°C for 30 min.

Sample Preparation: 0.3g+3mL Methanol, sonic Stationary Phase: Silica gel 60, HPTLC plates

Mobile Phase:

n-Butanol: Acetic acid: Water [6/1.5/2.5]

Detection:

(1) 10% Sulfuric, 100°C, 2min, Vis (Reich, E., 2007)

(2) 10% Sulfuric, 100°C, 2min, 366nm (Reich, E., 2007)

Reference Standard: Lane 7(2µI) (-)-Adenosine (WXBD3428V, SigAI), Methanol (0000278338, VWR)

Reference Source: Mehtod Developed by Alkemist Labs

IDT-SOP-72-01

<u>Comments & Conclusions:</u> Lane 3 is the test sample Beet Powder (BBEET07FEB23). Lanes 1, 2, 6, are the reference samples used for comparison. This test sample, Beet Powder (BBEET07FEB23) is consistent with the chromatographic profile of the reference samples of Beta vulgaris, used above. This test sample Beet Powder (BBEET07FEB23) has characteristics of Beta vulgaris 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

ACCREDITED
CERTIFICATE #3851.01

ISO/IEC 17025

Report Date: 02/23/23