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

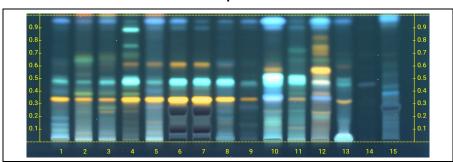


Work performed at: **Alkemist Labs**

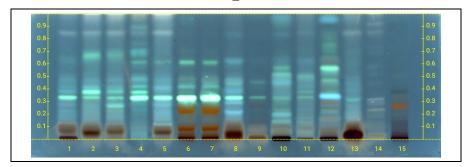
12661 Hoover Street Garden Grove, CA 92841 714-754-HERB (4372) 714-668-9972 (FAX) Sales@Alkemist.com www.Alkemist.com

<u>Certificate of Analysis:</u> Elder Berry (BELDR03APR24) High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name: Lost Empire Herbs
Title: Elder Berry

Plant Part: juice

Appearance: Ultrafine dark purple powder

Sample Packaging: Clear Reclosable Plastic Bag

Latin Name: Sambucus nigra L. [Viburnaceae]

Reference Sample: Lane 1(3µI) (22349UKN) Sambucus canadensis (fruit); Lane 2(3µI) (KRQ26418HH1) Sambucus cerulea (fruit); Lane

3(3µl) (21015KUQ) Sambucus ebulus (fruit); Lane 4(1µl) (PD17113BDS1) Sambucus nigra (flower); Lane 5(3µl) (PD29413HH1), Lane 6(0.5µl) (PD24515NC1) Sambucus nigra (fruit); Lane 10(5µl) (GP21909SPB) Aronia melanocarpa (fruit); Lane 11(5µl) (CAR01813TIS1) Prunus avium (fruit); Lane 12(3µl) (LQB15918AP1) Vaccinium macrocarpon (fruit); Lane 13(3µl) (21068URO) Morus nigra (fruit); Lane 14(3µl) (CQ28115LWF1) Glycine max (bean); Lane 15(0.5µl)

Sample Received:

Form of Botanical:

Lot Number:

Sample:

04/08/24

24099ECF_1

powdered extract

(BELDR03APR24) →Lane 7(0.5µl)

Report Date: 04/15/24

(20220YFH) Oryza sativa (grain); 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 226423

Sample Preparation: 1g+10mL water, sonicate/heat at 50°C for 30 min. SPE condition with 5mL Methanol, equilibrate with 5mL water,

load, dry, elute with 1mL Methanol(2x)

Stationary Phase: Silica gel 60, HPTLC plates

Mobile Phase:ethyl acetate: Acetic acid: formic acid: water [10/0.9/0.9/2]Detection:(1) Natural Product + Polyethylene Glycol, 366nm (Reich, E., 2007)

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

Reference Source: Method Developed by Alkemist Labs

IDT-SOP-72-01

<u>Comments & Conclusions:</u> Lane 7 is the test sample Elder Berry (BELDR03APR24) Lanes 1, 2, 3, 4, 5, 6, 10, 11, 12, 13, 14, 15 are the reference samples used for comparison. This test sample, Elder Berry (BELDR03APR24), is consistent with the chromatographic profile of the reference samples of Sambucus nigra used above. This test sample Elder Berry (BELDR03APR24) has characteristics of a customized extract derived from Sambucus nigra juice.

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



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to BELDRO3APR24.

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