Certificate Issued To: Ethos Natural Medicine LLC 1950 Cordell Court El Cajon, CA 92020

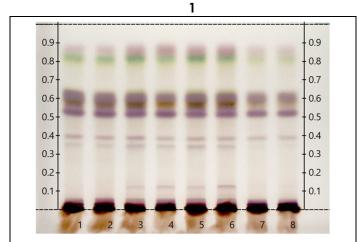


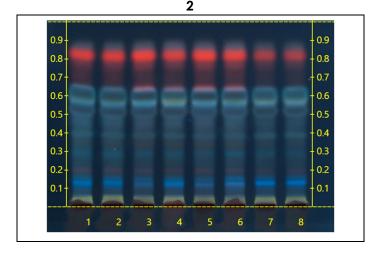
Work performed at: **Alkemist Labs**

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

Certificate of Analysis: Mitragyna Speciosa, Dry Leaf (1140201210)

High Performance Thin-Layer Chromatography with Photo-Documentation





Company Name: Ethos Natural Medicine LLC
Title: Mitragyna Speciosa, Dry Leaf

Plant Part: leaf Sample Received: 01/15/21

Sample Packaging: Clear Reclosable Plastic Bag

Form of Botanical: crude plant powder
Appearance: Fine Green Powder
Lot Number: (1140201210) →Lane 6(3μl)

Sample: 21015MSN_2 Latin Name: Mitragyna speciosa

Reference Sample: Lane 1(3µl) (WO12515KMD1), Lane 2(3µl) (WO12515KMD1) Mitragyna speciosa (leaf); Lane 7(3µl) (WO08909MIC),

Lane 8(3µl) (WO08909MIC) Mitragyna speciosa (herb (leaf, stem)); held at Alkemist Labs, Garden Grove, CA.

Analyst: A. Davis, N. Afendikova, M. Edwards, S. Kabbaj, N. Hoang, K. Tran, J. Lopez, J. Mares 150432

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 acetate: diethylamine [7/2/1]
Detection: (1) 10% Sulfuric, 100°C, 2min, Vis (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 6 is the test sample Mitragyna Speciosa, Dry Leaf (1140201210). Lanes 1, 2, 7, 8, are the reference samples used for comparison. This test sample, Mitragyna Speciosa, Dry Leaf (1140201210) is consistent with the chromatographic profile of the reference samples of Mitragyna speciosa, used above. This test sample Mitragyna Speciosa, Dry Leaf (1140201210) has characteristics of Mitragyna speciosa 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: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs

ACCREDITED
CERTIFICATE #3851.01

ISO/IEC 17025

Report Date: 02/12/21