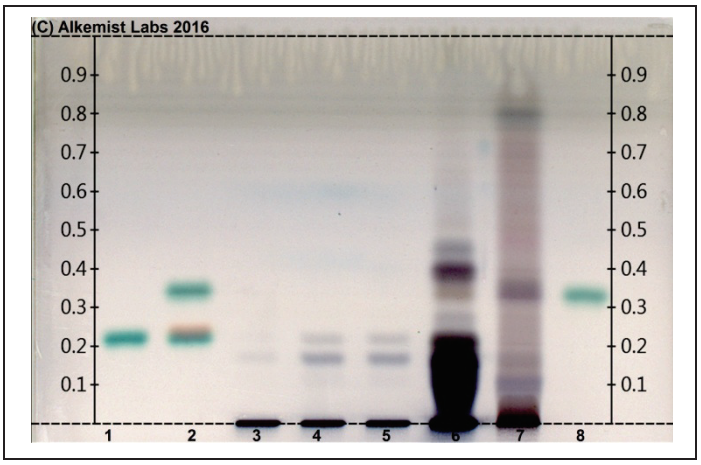
Certificate Issued To:
MetaLabs LLC
1009 Marisell Rd. Ste J
Roswell, GA 30076
USA

Work performed at:
Alkemist Labs
1260 Logan Ave B2
Costa Mesa, CA 92626
714-754-HERB (4372)
714-668-9972 (FAX)
sales@alkemist.com
www.alkemist.com

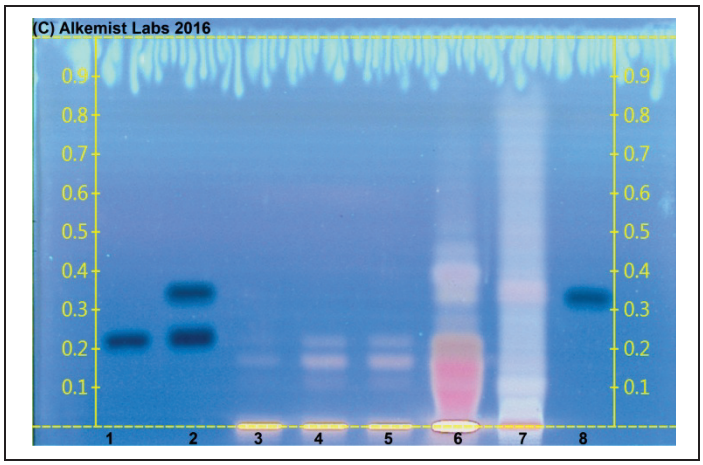
Certificate of Analysis: HEMP SEED OIL (RS26-9B3H1714)

High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name:	MetaLabs LLC
Title:	HEMP SEED OIL
Plant Part:	seed
Sample Received:	4/28/2016
Sample Packaging:	Light Sensitive Glass Bottle or Jar
Form of Botanical:	oil
Appearance:	Light Sensitive Glass Bottle or Jar
Lot:	(RS26-9B3H1714) → Lanes 4(5µl), 5(5µl)
Sample:	AGM11916METL1_1
Latin Name:	Cannabis sativa L. sp. sativa [Cannabaceae]
Reference Sample:	Lane 3(5µl) (AGM13016MRH1) Cannabis sativa sp. (seed); Lane 6(5µl) (AGM17608AP) Cannabis sativa sp. (seed); Lane 7(5µl) (AGM17508SWH) Cannabis sativa sp. (seed); held at Alkemist Labs, Costa Mesa, CA.
Analyst:	N. Hoang, L. Scott, P. Fast, T. Collins 69712
Sample Preparation:	0.03mL+3mL toluene sonicate 5 min's; NO HEAT
Stationary Phase:	Macherey-Nagel Silica gel 60 RP-18W F254S HPTLC plates
Mobile Phase:	CH_3OH: H_2O: Acetic acid 0.1% [7.5/2.5/0.01]
Detection:	(1) Vanillin/H_2SO_4 Reagent → 120° C 10 min → visible light (2) Vanillin/H_2SO_4 Reagent → 120° C 10 min → UV 365 nm
Reference Standard:	Lane 1(2µl) Tetrahydrocannabinol (A0104144, RSTK), Lane 2(2µl) Cannabinoids (A0107190, RSTK) Lane 8(2µl) Cannabidiol (FE01281502, CER) ~0.1%
Reference Source:	American Herbal Pharmacopaeia 2014 IDT-SOP-72-01

Comments & Conclusions: Lanes 4, 5 are the test sample HEMP SEED OIL (RS26-9B3H1714). Lanes 3, 6, 7 are the reference samples used for comparison. This test sample, HEMP SEED OIL (RS26-9B3H1714), is consistent with the chromatographic profile of the reference sample of Cannabis sativa L. sp. sativa [Cannabaceae], used above. **This test sample, HEMP SEED OIL (RS26-9B3H1714) has characteristics of a customized extract derived from Cannabis sativa L. sp. sativa [Cannabaceae] seed.**

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: Sandy Sudberg, Senior Data Analyst, Alkemist Labs

Sandy Sudberg, M.T., ASCP
Senior Data Analyst
Digitally signed by Sandy Sudberg
DN: cn=Sandy Sudberg, o=Alkemists Laboratories, ou, email=sandy@alkemist.com, c=US
Date: 2016.05.16 14:18:41 -07'00'

Report Date: 5/16/2016

ISO/IEC 17025
ACCREDITED
CERTIFICATE #3851.01

Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to RS26-9B3H1714.