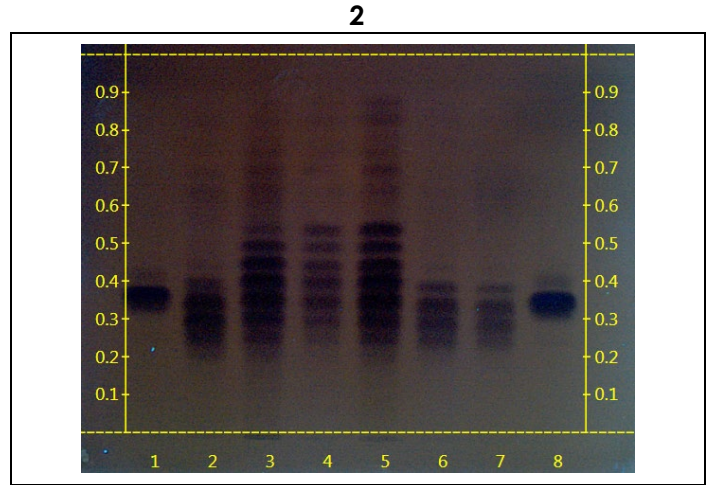
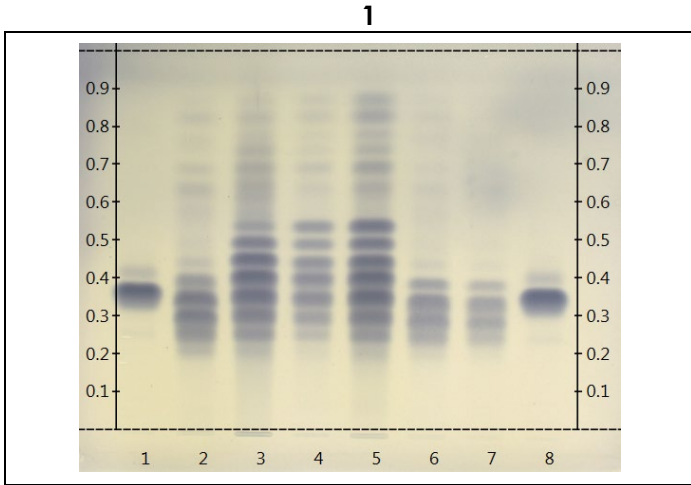


Certificate Issued To:  
Puredia USA Corporation Limited  
9711 Irvine Center Drive  
Irvine, CA 92618  
USA



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: Puredia Seaberry Seed Oil (C13-190301)**  
High Performance Thin-Layer Chromatography with Photo-Documentation



Company Name: Puredia USA Corporation Limited  
Title: Puredia Seaberry Seed Oil  
Plant Part: seed  
Sample Received: 03/06/20  
Sample Packaging: Light Sensitive Glass Bottle or Jar  
Form of Botanical: liquid extract  
Appearance: Clear Liquid  
Source Location: Puredia  
Lot Number: (C13-190301) → Lanes 4(0.5µl), 5(2µl)  
Sample: 20066JFN\_1  
Latin Name: *Hippophae rhamnoides* L. [Elaeagnaceae]  
Reference Sample: Lane 2(2µl) (APD20315MRH1) *Hippophae rhamnoides* (oil); Lane 3(2µl) (APD10315SIB1) *Hippophae rhamnoides* (seed); Lane 6(2µl) (APD10315SIB2), Lane 7(1µl) (APD10315SIB2) *Hippophae rhamnoides* (fruit); held at Alkemist Labs, Garden Grove, CA.  
Analyst: A. Davis, N. Afendikova, M. Edwards, S. Kabbaj, N. Hoang, K. Tran, J. Lopez, J. Mares 132285  
Sample Preparation: 0.03mL+3mL toluene, sonicate for 5 min; NO HEAT  
Stationary Phase: Merck Silica gel 60 RP-18 F254S HPTLC plates  
Mobile Phase: Dichloromethane: Acetic acid: acetone: develop to 8cm [2/4/5/]  
Detection: (1) 5% Phosphomolybdic Acid Reagent, heat at 100°C, for 3 min, UV 366 nm  
(2) 5% Phosphomolybdic Acid Reagent, heat at 100°C, for 3 min, UV 366 nm  
Reference Standard: Lanes 1(3µl) and 8(3µl) β-Sitosterol (R026A0, USP), Methanol (0000239114, VWR)  
Reference Source: Method Developed by Alkemist Labs  
IDT-SOP-72-01

**Comments & Conclusions:** Lanes 4, 5 are the test sample Puredia Seaberry Seed Oil (C13-190301) Lanes 2, 3, 6, 7 are the reference samples used for comparison. This test sample, Puredia Seaberry Seed Oil (C13-190301), is consistent with the chromatographic profile of the reference samples of *Hippophae rhamnoides* used above. **This test sample Puredia Seaberry Seed Oil (C13-190301) has characteristics of a customized extract derived from *Hippophae rhamnoides* 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: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs

Report Date: 03/12/20



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to C13-190301. This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report is for the exclusive use of the party who requested the report and not for public dissemination or use by third parties, including for promotional purposes, without the prior written permission of Alkemist Labs, Inc. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented or abstracted in any manner. Any violation of these conditions renders the report and its results void. © 2020 Alkemist Labs, Inc. All Rights Reserved