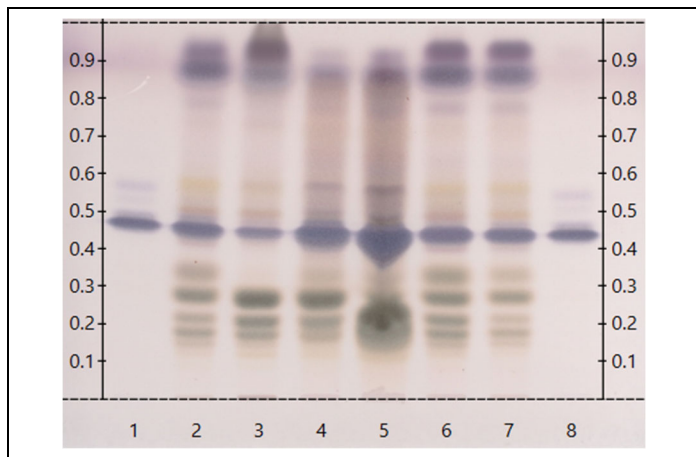


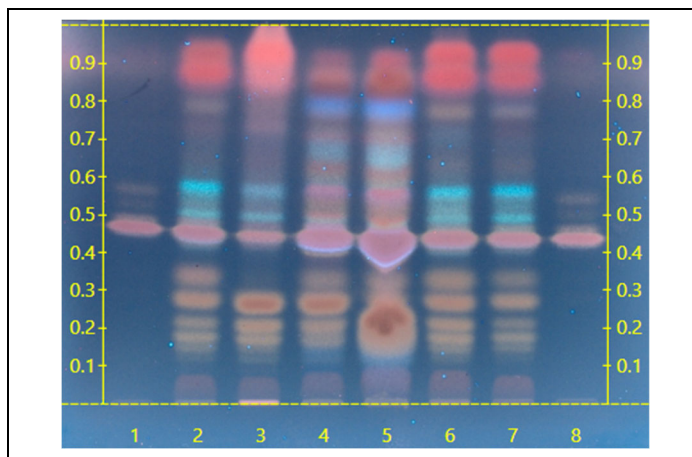


**Certificate of Analysis: Horse Chestnut Extract (SLG20220720)**  
**High Performance Thin-Layer Chromatography with Photo-Documentation**

1



2



Company Name: Ingredientsonline.com  
Title: Horse Chestnut Extract  
Plant Part: seed  
Sample Received: 08/03/22  
Sample Packaging: Clear Reclosable Plastic Bag  
Form of Botanical: powdered extract  
Appearance: fine tan powder  
Source Location: Xi'an Rainbow Biotech Co. Ltd  
Lot Number: (SLG20220720) → Lanes 4(2µl), 5(5µl)  
Sample: 22215VDS\_1  
Latin Name: *Aesculus hippocastanum* L. [Sapindaceae]  
Reference Sample: Lane 2(5µl) (MF12104BH), Lane 3(5µl) (MF32004BMX2), Lane 6(5µl) (MF26205PB), Lane 7(5µl) (MF26205BRU) *Aesculus hippocastanum* (seed); held at Alkemist Labs, Garden Grove, CA.  
Analyst: J.Mares, K.Chopra, K.Montoya, K.Tran, M.Levine, N.Carson, N.Hoang, N.Afendikova, P.Hoang, S. Kabbaj, S.Sudberg, T.Louis, D.Robinson 181349  
Sample Preparation: 0.3g+3mL Methanol, sonicate/heat at 50°C for 30 min.  
Stationary Phase: Silica gel 60, HPTLC plates  
Mobile Phase: n-Propanol: Ethyl Acetate: Acetic acid: water [4/3/0.15/3]  
Detection: (1) Anisaldehyde/Sulfuric, 100°C, 2min, vis (Reich, E., 2007)  
(2) Anisaldehyde/Sulfuric, 100°C, 2min, 366nm (Reich, E., 2007)  
Reference Standard: Lanes 1(3µl) and 8(3µl) Escin (BCCC9208, SigAl), Methanol (216546, FC)  
Reference Source: HPTLC Association  
IDT-SOP-72-01

**Comments & Conclusions:** Lanes 4, 5 are the test sample Horse Chestnut Extract (SLG20220720) Lanes 2, 3, 6, 7 are the reference samples used for comparison. This test sample, Horse Chestnut Extract (SLG20220720), is consistent with the chromatographic profile of the reference samples of *Aesculus hippocastanum* used above. **This test sample Horse Chestnut Extract (SLG20220720) has characteristics of a customized extract derived from *Aesculus hippocastanum* 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: 08/09/22

ISO/IEC 17025



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to SLG20220720. 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. © 2022 Alkemist Labs, Inc. All Rights Reserved