

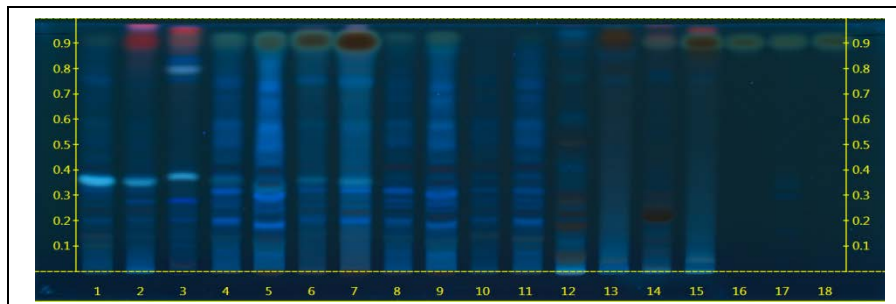
Certificate Issued To:
Changsha Huir Biological-Tech Co.,
Ltd.
1056 E Philadelphia Street #80
Ontario, CA 91761
USA



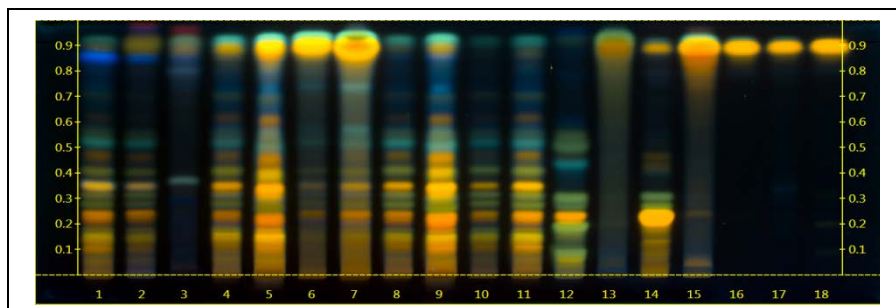
Work performed at:
Alkemist Labs
1260 Logan Ave B2
Costa Mesa, CA 92626
714-754-HERB (4372)
714-668-9972 (FAX)
Sales@Alkemist.com
www.Alkemist.com

Certificate of Analysis: Ginkgo biloba leaf P.3 24% / 6% (G20161102H)
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name:	Changsha Huir Biological-Tech Co., Ltd.	Sample Received:	12/23/16
Title:	Ginkgo biloba leaf P.3 24% / 6%	Form of Botanical:	powdered extract
Plant Part:	leaf	Lot Number:	(G20161102H) → Lanes 10(0µl), 11(2µl)
Appearance:	Foil Pouch	Sample:	X35816CHB2_1
Sample Packaging:	Foil Pouch		
Latin Name:	<i>Ginkgo biloba</i> L. [Ginkgoaceae]		
Reference Sample:	Lane 2(2µl) (X15209CRB), Lane 3(2µl) (X15209CRB) <i>Ginkgo biloba</i> (leaf); Lane 12(2µl) (AGK02609SWH2), Lane 13(2µl) (AGK02609SWH2) <i>Sophora japonica</i> (fruit); Lane 14(2µl) (AGK02609SWH1), Lane 15(2µl) (AGK02609SWH1) <i>Sophora japonica</i> (flower); held at Alkemist Labs, Costa Mesa, CA.		
Analyst:	J. Kim, N. Hoang, P. Fast, N. Afendikova, K. Tran, S. Kabbaj, E. Garcia 78891		
Sample Preparation:	0.3g+3mL 70% grain EtOH sonicate/heat @-50° C ~ 1/2 hr		
Stationary Phase:	Silica gel 60, HPTLC plates		
Mobile Phase:	ethyl acetate: Acetic acid: Formic Acid: Water [10/0.9/0.9/2]		
Detection:	(1) UV 366 nm (2) Natural Product Reagent + Polyethylene Glycol Reagent, UV 366 nm		
Reference Standard:	Lane 18(2µl) Quercetin (H0G321, USP), Water (112083, JTB), Methanol (55162, VWR); Lane 1(6µl) Ginkgo Biloba Extract (3247, NIST), Water (0000142259, JTB), Ethyl alcohol (C15J22002, VWR)		
Reference Source:	Method developed by Alkemist Labs IDT-SOP-72-01		

Comments & Conclusions: Lanes 10, 11 are the test sample Ginkgo biloba leaf P.3 24% / 6% (G20161102H) Lanes 2, 3, 12, 13, 14, 15 are the reference samples used for comparison. This test sample, Ginkgo biloba leaf P.3 24% / 6% (G20161102H) is consistent with the chromatographic profile of the reference samples of *Ginkgo biloba* used above. **This test sample Ginkgo biloba leaf P.3 24% / 6% (G20161102H) has characteristics of a customized extract derived from Ginkgo biloba 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: Sidney Sudberg, Chief Scientific Officer, Alkemist Labs

Report Date: 01/05/17
Rev 1: 01/10/17



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to G20161102H.

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