



Alkemist Labs Verified Botanical Reference Material by HPTLC Fingerprint - Certificate of Authenticity

Botanical Nomenclature: *Pausinystalia johimbe* (K. Schum.) Pierre ex Beille [Rubiaceae] **Analysis by:** N. Afendikova, K. Montoya, L. Tang, D. Robinson, K. Tran

Common name: Yohimbe **Method:** Plant Drug Analysis, Wagner, H., 1996

Plant Part: Bark

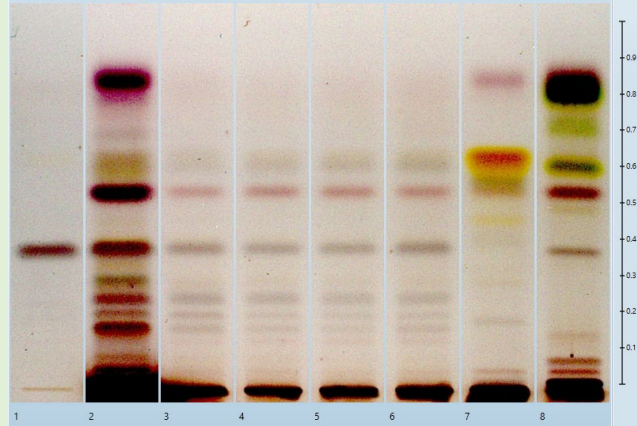


Plate Image 1: Derivatized with 10% Sulfuric Acid Reagent, visible light

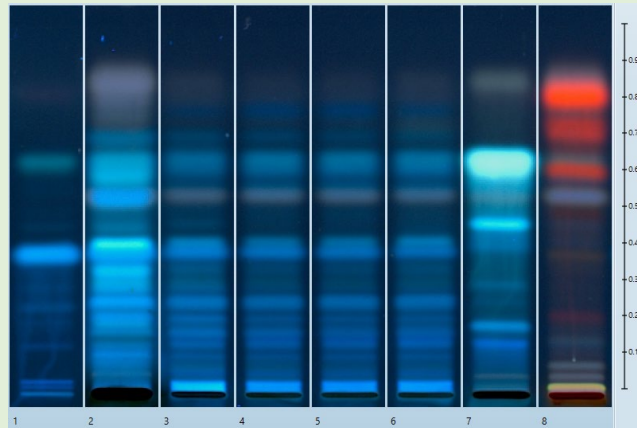


Plate Image 2: Derivatized with 10% Sulfuric Acid Reagent, UV 366 nm

Plate Images 1-2 Track Assignment

Track	Sample	Part	Sample#	µL
1	Yohimbine HCl	N/A	N/A	3
2	<i>Pausinystalia johimbe</i>	Bark	Lot # RK-3-31-1-PJ	3
3	<i>Pausinystalia johimbe</i>	Bark	LD19710AP	3
4	<i>Pausinystalia johimbe</i>	Bark	LD11109MBS	3
5	<i>Pausinystalia johimbe</i>	Bark	LD11109MRH	3
6	<i>Pausinystalia johimbe</i>	Bark	LD13309CRB	3
7	<i>Pausinystalia johimbe</i>	Root	22187YXB	3
8	<i>Pausinystalia johimbe</i>	Leaf	22187WSV	3

Method Testing Parameters

Sample Preparation:
 0.3g+3 mL 95% grain Ethanol, sonicate/heat at 50° C for 30 min.

Mobile Phase:
 Toluene/Ethyl Acetate/Diethylamine (7/2/1; v/v/v)

Derivatization Reagents:
 10% Sulfuric Acid:
 50 mL Sulfuric Acid in 450 mL Ethanol.

Comments and Conclusions: The extracted sample solution in track 2 shows a fingerprint similar to the extracted botanical reference material solutions of *Pausinystalia johimbe* bark (tracks 3, 4, 5, 6, 7, 8) with respect to number, position, color and intensity of bands. Zones of varying intensities are present. The above conclusion may be a function of the natural variance found in botanicals. The growing and drying conditions, age, seasonal variations, geographic location, etc. all play a role in the phytochemical fingerprint of botanicals as well as their extracts; hence, chromatographic variations are expected. **This test sample Lot # RK-3-31-1-PJ (Lane 2) has characteristics of a customized extract derived from *Pausinystalia johimbe* bark.**

ISO/IEC 17025

Analyzed by: Khanh Tran
 Examined, Reviewed & Authorized by: Sidney Sudberg, Chief Scientific Officer

Report Date: 07/28/23



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