





For Laboratory Use Only

Certificate of Analysis

PRODUCT Asian Ginseng (Panax Ginseng) Root

PART NUMBER 00030303

REFERENCE TYPEBiomass Reference Material (VBRM) *

LOT NUMBER 00030303-055

COMMON NAME Asian Ginseng

LATIN NAME Panax ginseng C. A. Mey. [Araliaceae]

PLANT PART Root

CDXA NUMBER CDXA-BRM-055

REPORT NUMBER CDXA-VBRMR-068-03

DATE OF SAMPLE 10/15/2003

DATE OF RE-EVALUATION 01/19/2012 (1st); 03/10/2016 (2nd)

04/16/2020 (3rd)

DATE OF REPORT 06/01/2020



A full-size color voucher copy may be purchased by contacting the ChromaDex sales office



ANALYTICAL RESULTS

TEST	METHOD	RESULT	
Appearance	Macroscopy	(1) Whole/Cut: Thick brown/yellow root fragment with transverse and longitudinal wrinkles (2) Milled: Tan powder	
Anatomy/Morphology	Microscopy	(400x) Yellow secretion from a resin canal	
HP-TLC	CDXA-TLCM-030-03	Conforms	

STORAGE CONDITIONS

STORAGE 20-30 °C; Dry storage area; Insect free; Volatile free

EXPIRATION DATE 04/2025 under the above conditions







For Laboratory Use Only

Certificate of Analysis

MACROSCOPY

(1)



MICROSCOPY

(1)









Certificate of Analysis

For Laboratory Use Only

HP-TLC CONDITIONS

STATIONARY PHASE Silica gel 60, F₂₅₄, 10 x 10 cm HP-TLC plates

SAMPLE PREPARATION 0.5 g + 5 ml methanol, sonicated in hot water bath for \sim 10 minutes.

MOBILE PHASE

Butanol/ EtOAc/ water [20/5/10] 10 ml

CHAMBER TEMPERATURE Ambient

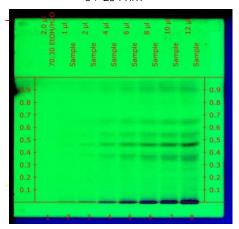
DETECTION (1) UV 254 nm

(2) UV 366 nm

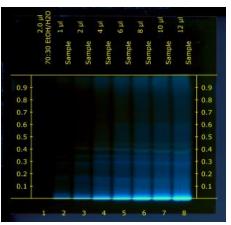
(3) Anisaldehyde → visible light

HP-TLC PLATES

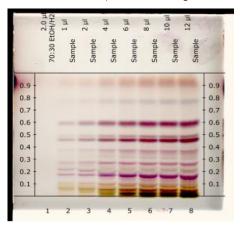




UV 366nm



Anisaldehyde → Visible light



HP-TLC LANE APPLICATIONS

Lane	ID		Lane	ID
1	70:30 EtOH/H ₂ O		5	Panax ginseng VBRM sample
2	Panax ginseng VBRM sample		6	Panax ginseng VBRM sample
3	Panax ginseng VBRM sample		7	Panax ginseng VBRM sample
4	Panax ginseng VBRM sample		8	Panax ginseng VBRM sample







Certificate of Analysis

For Laboratory Use Only

REVISION HISTORY

Revision History	<u>Date of Revision</u>	Document/Changes
00	10/15/2003	New report
01	01/20/2012	Passed re-evaluation; updated expiration date; general template update
02	03/11/2016	Passed second re-evaluation; updated expiration date; updated conditions; updated TLC pictures; general template update
03	06/01/2020	Passed third re-evaluation; updated expiration date; general template update