

PRODUCT	<i>Mucuna pruriens</i> (Velvet bean) Seed
PART NUMBER	00031338
REFERENCE TYPE	Biomass Reference Material (VBRM) *
LOT NUMBER	000031338-021
COMMON NAME	Velvet bean
LATIN NAME	<i>Mucuna pruriens</i> (L.) DC. [Fabaceae]
PLANT PART	Seed
SAMPLE NUMBER	CDXP-21-00560
REPORT NUMBER	CDXA-VBRM-203-00
DATE OF SAMPLE	08/11/2021
DATE OF REPORT	09/02/2021



*Note – Vouchered (V) BRM is a voucher specimen

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: seed ovoid, slightly laterally compressed, with a persistent oblong, funicular hilum (2) Milled: Black and brown speckled white powder
Anatomy/Morphology	Microscopy (400x) acidified chloral hydrate glycerol solution	(1) parenchymatous cells containing starch grains (2) palisade and cells from subepidermis
HP-TLC	See HP-TLC conditions	Conforms

STORAGE CONDITIONS

STORAGE	20-30 °C; Dry storage area; Insect free; Volatile free
EXPIRATION DATE	08/2026 under the above conditions

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MACROSCOPY

(1)

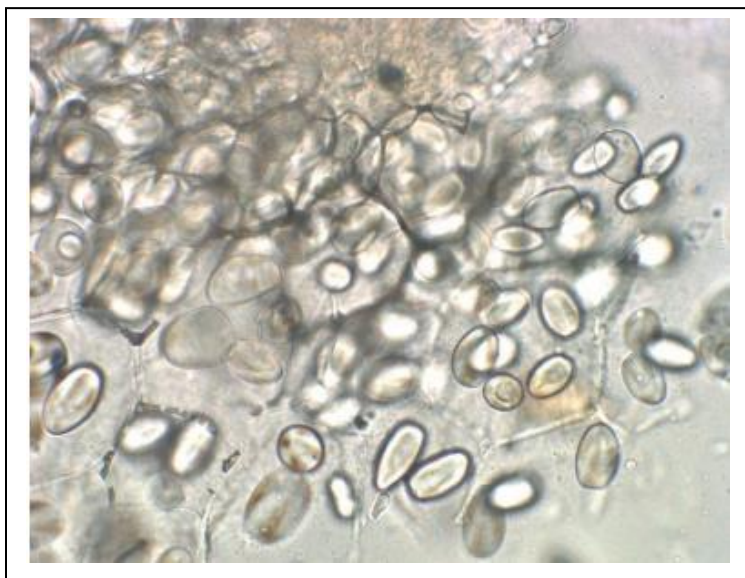


(2)

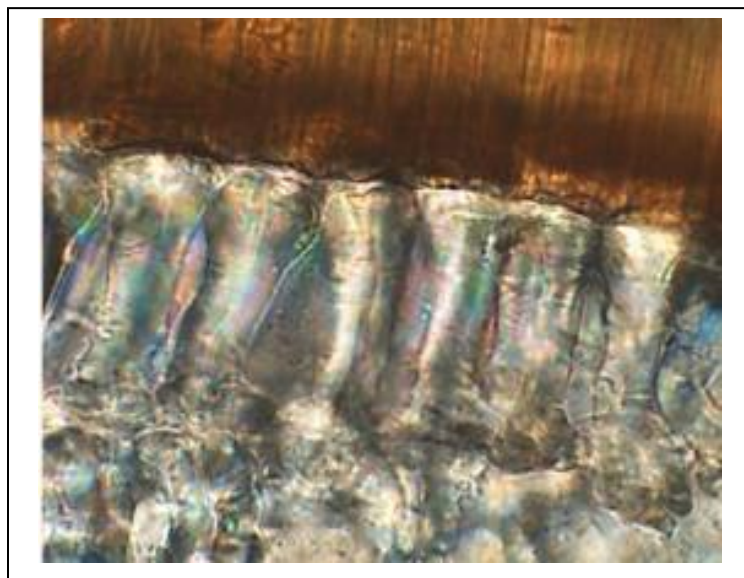


MICROSCOPY

(1)



(2)



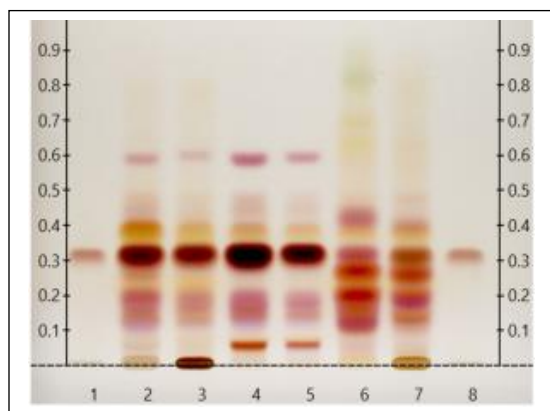
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HP-TLC CONDITIONS

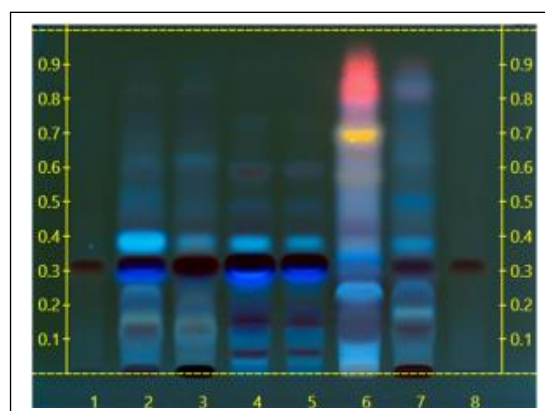
STATIONARY PHASE	Silica gel 60, HPTLC plates
SAMPLE PREPARATION	0.3 g + 3 mL 70% grain Ethanol, sonicate/heat at 50 °C for 30 min.
MOBILE PHASE	n-Butanol: Acetic acid: Water [8/2/2]
DETECTION	(1) Ninhydrin, 120 °C, 5min, visible light (2) Ninhydrin, 120 °C, 5min, 366 nm

HP-TLC PLATES

HP-TLC (1)



HP-TLC (2)



HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	L-dopa (3 µL)	5	<i>Mucuna pruriens</i> VBRM (3 µL)
2	<i>Mucuna pruriens</i> seed (6 µL)	6	<i>Mucuna pruriens</i> herb (leaf, stem) (6 µL)
3	<i>Mucuna pruriens</i> seed (6 µL)	7	<i>Mucuna pruriens</i> root (6 µL)
4	<i>Mucuna pruriens</i> VBRM (6 µL)	8	L-dopa (3 µL)

REVISION HISTORY

Revision History	Date of Revision	Document/Changes
00	09/02/2021	New report