

PRODUCT	<i>Garcinia mangostana</i> (Mangosteen) fruit rind
PART NUMBER	00030992
REFERENCE TYPE	Biomass Reference Material (VBRM) *
LOT NUMBER	00030992-585
COMMON NAME	Mangosteen
LATIN NAME	<i>Garcinia mangostana</i> L. [Clusiaceae]
PLANT PART	Fruit rind
SAMPLE NUMBER	CDXP-20-00585
REPORT NUMBER	CDXA-VBRM-199-00
DATE OF SAMPLE	08/06/2020
DATE OF REPORT	08/26/2020



*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: fruit purple-red, globose, 5-8 cm in diameter, smooth with persistent sepals (2) Fruit with persistent stigma
Anatomy/Morphology	Microscopy (400x, acidified chloral hydrate glycerol solution)	(1) (400x) sclereids with thick, lignified walls with pits, isolated or in groups
HP-TLC	See HP-TLC conditions	Conforms

STORAGE CONDITIONS

STORAGE	20-30 °C; Dry storage area; Insect free; Volatile free
EXPIRATION DATE	08/2025 under the above conditions

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MACROSCOPY

(1)

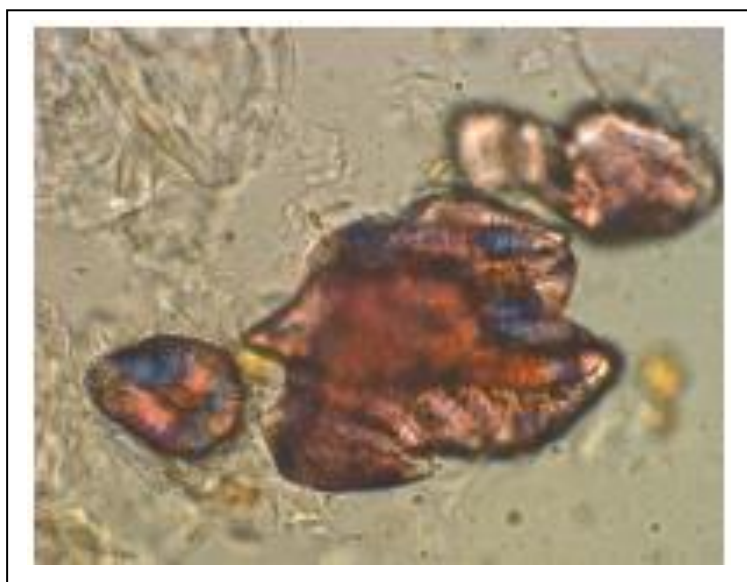


(2)



MICROSCOPY

(1)



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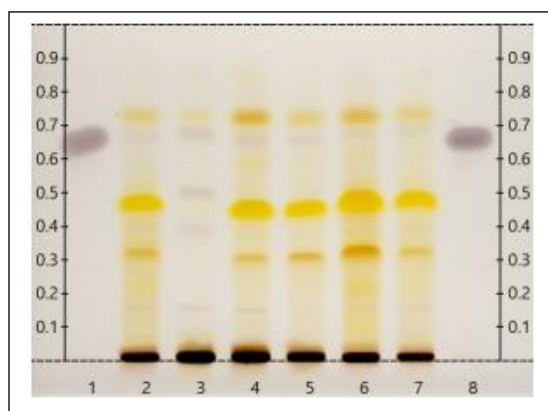
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HP-TLC CONDITIONS

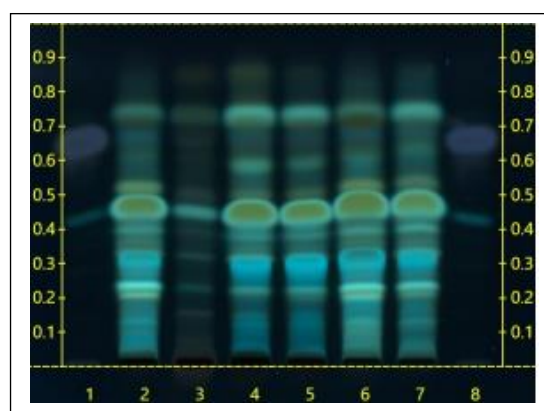
STATIONARY PHASE	Silica gel 60, HPTLC plates
SAMPLE PREPARATION	0.3 g + 3 mL 70% grain Ethanol, sonicate/heat at 50 °C for 30 min.
MOBILE PHASE	Chloroform: Methanol [9/1]
DETECTION	(1) 10% Sulfuric, 100 °C, 2 min, visible light (2) 10% Sulfuric, 100 °C, 2 min, 366 nm

HP-TLC PLATES

HP-TLC (1)



HP-TLC (2)


HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	β -Sitosterol (3 μ L)	5	N/A
2	<i>Garcinia mangostana</i> (peel) (3 μ L)	6	<i>Garcinia mangostana</i> (fruit) (4 μ L)
3	<i>Garcinia mangostana</i> (inner fruit flesh) (3 μ L)	7	<i>Garcinia mangostana</i> (fruit) (2 μ L)
4	<i>Garcinia mangostana</i> BRM (3 μ L)	8	β -Sitosterol (3 μ L)

REVISION HISTORY

Revision History	Date of Revision	Document/Changes
00	08/26/2020	New report