

PRODUCT	<i>Cinnamomum aromaticum</i> (Cassia) Bark
PART NUMBER	00030060
REFERENCE TYPE	Biomass Reference Material (BRM) *
LOT NUMBER	00030060-420
COMMON NAME	Cassia
LATIN NAME	<i>Cinnamomum aromaticum</i> / <i>Cinnamomum cassia</i> Nees. syn. [Lauraceae]
PLANT PART	Bark
SAMPLE NUMBER	CDXP-20-00815
REPORT NUMBER	CDXA-BRM-197-00
DATE OF SAMPLE	11/05/2020
DATE OF REPORT	11/24/2020

*Note – Biomass Reference Material (BRM) is not a voucher specimen

ANALYTICAL RESULTS

TEST	METHOD	RESULT
Appearance	Macroscopy	(1) Whole/Cut: Brown bark pieces (2) Milled: Red-brown powder
Anatomy/Morphology	Microscopy	(1) 200X; single, thick-walled fibers with tapered ends; acidified chloral hydrate glycerol solution (2) 400X; abundant starch granules; acidified chloral hydrate glycerol solution
HP-TLC	See HP-TLC conditions	Conforms

STORAGE CONDITIONS

STORAGE	20-30 °C; Dry storage area; Insect free; Volatile free
EXPIRATION DATE	11/2025 under the above conditions

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MACROSCOPY

(1)

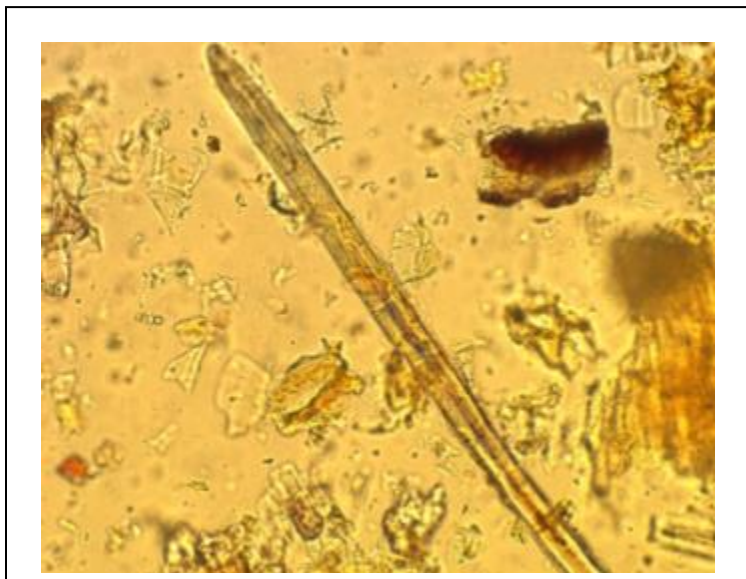


(2)

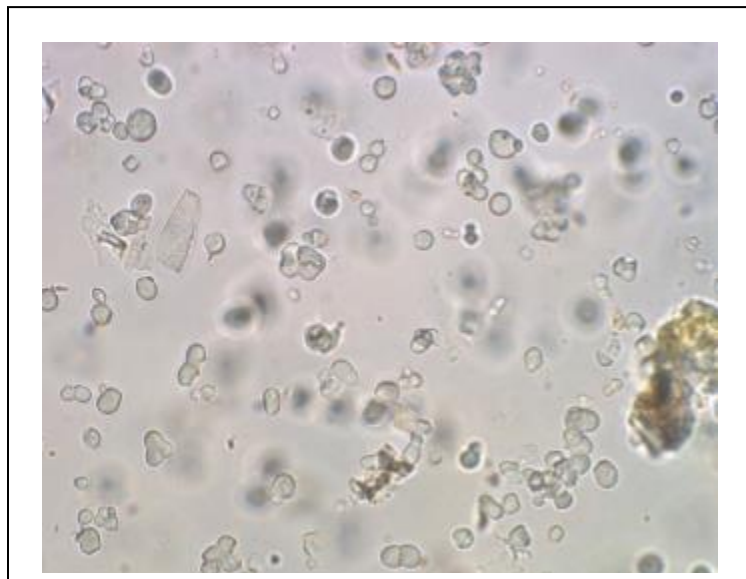


MICROSCOPY

(1)



(2)



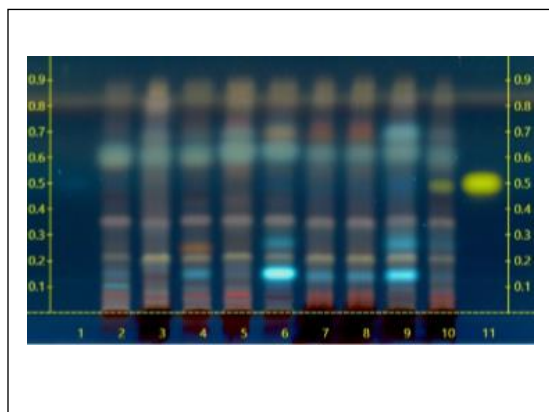
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HP-TLC CONDITIONS

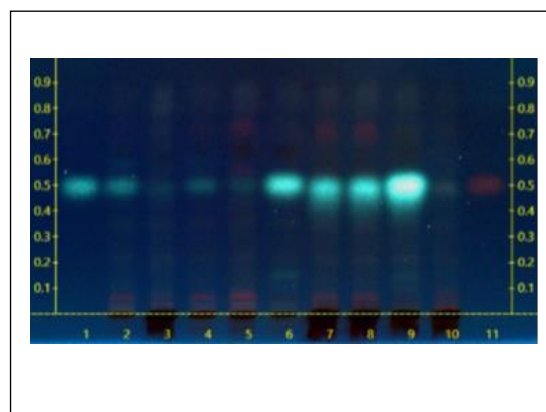
STATIONARY PHASE	Silica gel 60, HPTLC plates
SAMPLE PREPARATION	0.3 g + 3 mL Methanol, sonicate/heat at 50 °C for 30 min.
MOBILE PHASE	Toluene: Methanol [9/1]
DETECTION	(1) Vanillin/Sulfuric, 110°C, 2min, 366nm (2) 10% Potassium hydroxide, 366nm

HP-TLC PLATES

HP-TLC (1)



HP-TLC (2)


HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	Coumarin reference standard (3 µL)	7	N/A
2	<i>Cinnamomum aromaticum</i> /Cinnamomum cassia stem (8 µL)	8	N/A
3	<i>Cinnamomum aromaticum</i> / Cinnamomum cassia bark (8 µL)	9	<i>Cinnamomum burmannii</i> bark (8 µL)
4	N/A	10	<i>Cinnamomum verum</i> bark (8 µL)
5	CDXP-20-00815, <i>Cinnamomum aromaticum</i> bark (8 µL)	11	Eugenol reference standard (0.5 µL)
6	N/A		

REVISION HISTORY

Revision History	Date of Revision	Document/Changes
00	11/24/2020	New report

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