

PRODUCT	<i>Serenoa repens</i> (Saw Palmetto) Fruit
PART NUMBER	00030725
REFERENCE TYPE	Biomass Reference Material (BRM) *
LOT NUMBER	00030725-069
COMMON NAME	Saw palmetto
LATIN NAME	<i>Serenoa repens</i> (W. Bartram) Small [Arecaceae]
PLANT PART	Fruit
SAMPLE NUMBER	CDXA-08-1927
REPORT NUMBER	CDXA-BRMR-080-02
DATE OF SAMPLE	07/24/2003
DATE OF REEVALUATION	06/24/2013 (1 st); 05/15/2018 (2 nd); 03/28/2022 (3 rd)
DATE OF REPORT	04/12/2022

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

ANALYTICAL RESULTS

TEST	METHOD	RESULT
Appearance	Macroscopy	(1) Milled: Dark brown fine powder
Anatomy/Morphology	Microscopy	(1) Stone cell showing striations and pitting (2) Fragment of exocarp showing reddish-brown polyhedral cells and a fragment of xylem tissue showing small spirally thickened vessels
HP-TLC	See HP-TLC conditions	Conforms

STORAGE CONDITIONS

STORAGE	20-30 °C; Dry storage area; Insect free; Volatile free
EXPIRATION DATE	03/2027 under the above conditions

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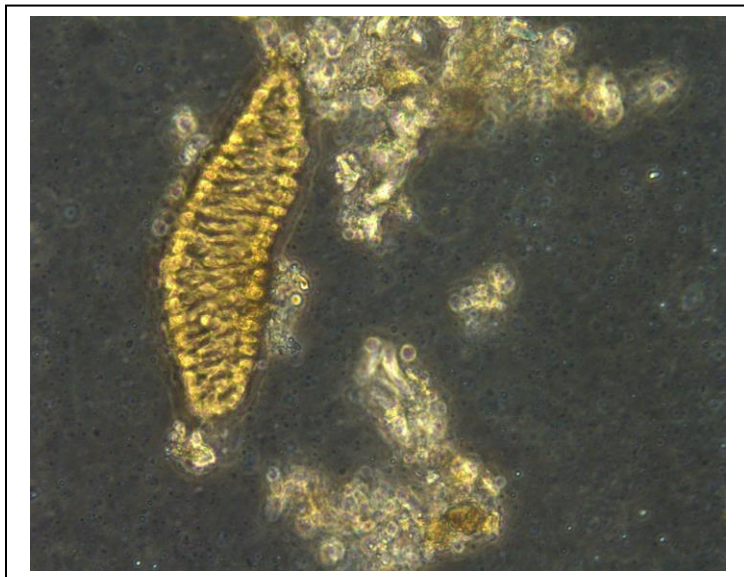
MACROSCOPY

(1)



MICROSCOPY

(1)



(2)



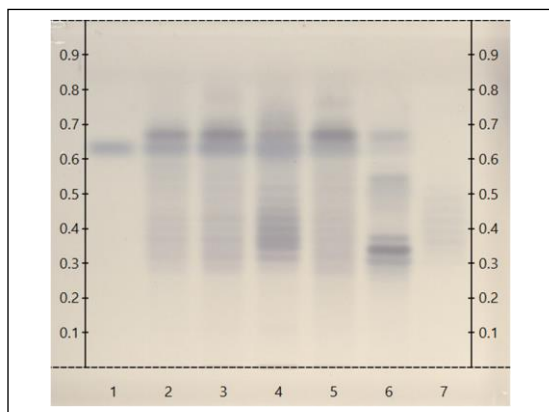
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HP-TLC CONDITIONS

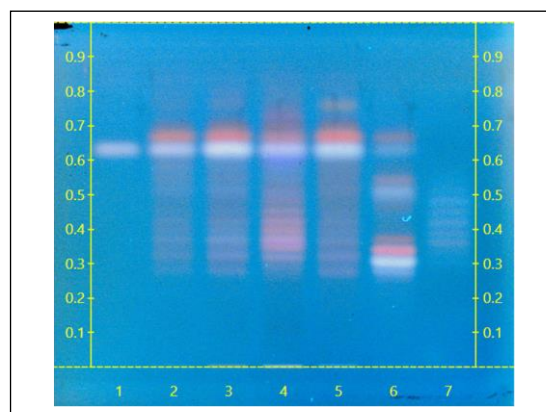
STATIONARY PHASE	Merck Silica gel 60 RP-18 F254S HPTLC plates
SAMPLE PREPARATION	0.3 g + 3 mL toluene, sonicate for 15 min
MOBILE PHASE	Dichloromethane/ Acetic acid/ acetone: Develop to 8 cm. [2/4/5/]
DETECTION	(1) Vanillin/Sulfuric, 110 °C, 2 min, vis (2) Vanillin/Sulfuric, 110 °C, 2 min, 366 nm

HP-TLC PLATES

HP-TLC (1)



HP-TLC (2)



HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	Oleic acid (3 µL)	5	<i>Serenoa repens</i> BRM (5 µL)
2	<i>Serenoa repens</i> (fruit) (5 µL)	6	<i>Elaeis guineensis</i> (fruit oil) (3 µL)
3	<i>Serenoa repens</i> (fruit) (5 µL)	7	<i>Cocos nucifera</i> (seed) (3 µL)
4	NA	8	NA

REVISION HISTORY

Revision History	Date of Revision	Document/Changes
00	05/24/2013	New report and first re-evaluation
01	06/14/2018	Passed second re-evaluation; updated expiration date, HP-TLC conditions and HP-TLC plates; general template update.
02	04/12/2022	Material passed reevaluation by HP-TLC. Updated expiration date, template, HP-TLC method conditions, plates, and lane applications.

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