

PRODUCT	<i>Phyllanthus emblica</i> (amla) Fruit
PART NUMBER	00031310
REFERENCE TYPE	Biomass Reference Material (VBRM) *
LOT NUMBER	00031310-520
COMMON NAME	Amla
LATIN NAME	<i>Phyllanthus emblica</i> L. [Euphorbiaceae]
PLANT PART	Fruit
CDXA NUMBER	CDXA-11-5686
REPORT NUMBER	CDXA-VBRMR-147-01
DATE OF SAMPLE	08/14/2014
DATE OF RE-EVALUATION	08/01/2019
DATE OF REPORT	08/28/2019



*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: Brown fruit pieces with tan interior Milled: Dark tan powder
Anatomy/Morphology	Microscopy (200x)	(1) Crystalline structures in the mesocarp under polar filter (2) Exocarp under polar filter
HP-TLC	CDXA-TLCM-426-00	Conforms

STORAGE CONDITIONS

STORAGE	20-30 °C; Dry storage area; Insect free; Volatile free
EXPIRATION DATE	08/2024 under the above conditions

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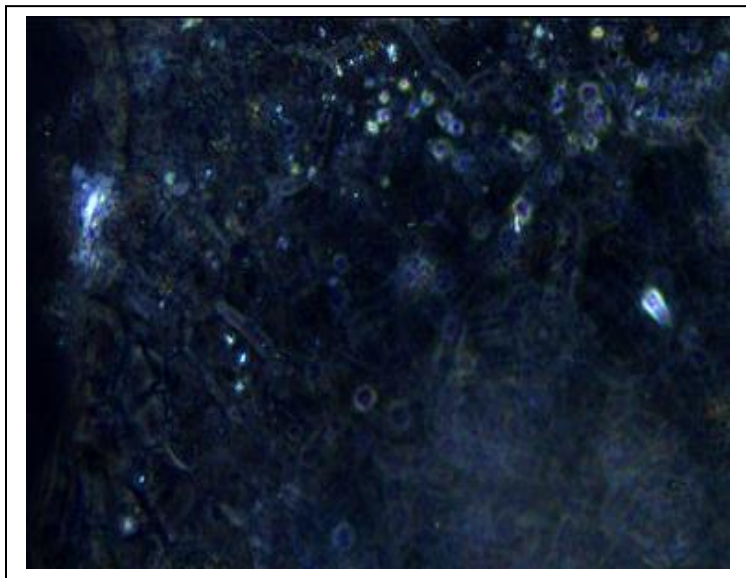
MACROSCOPY

(1)

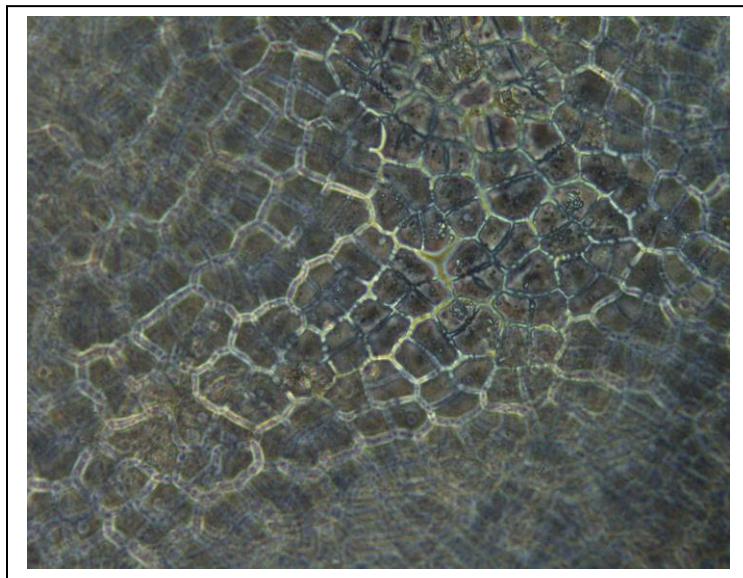


MICROSCOPY

(1)



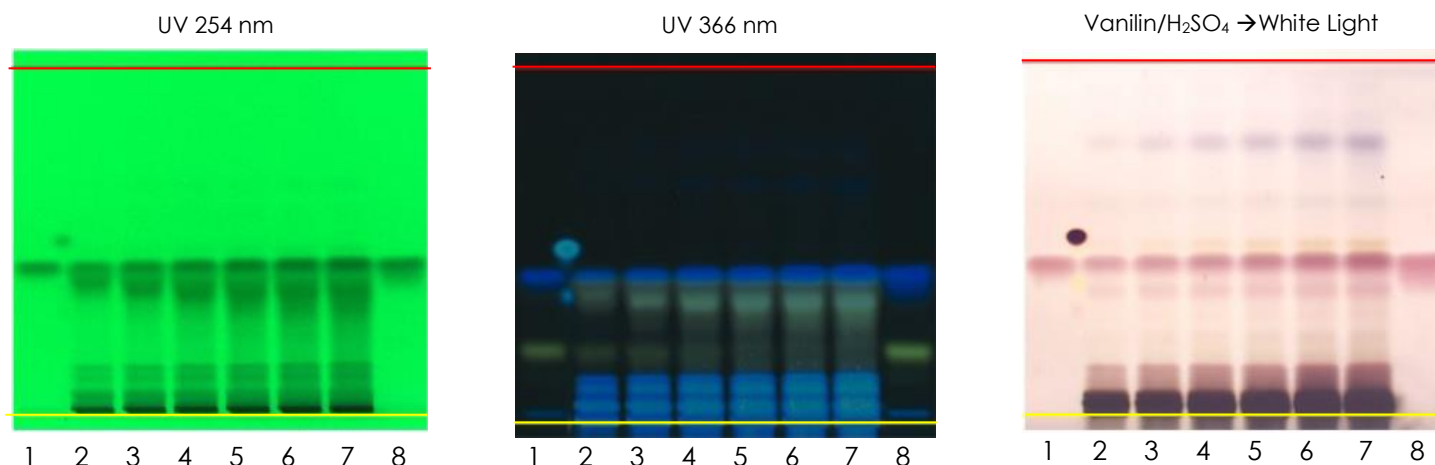
(2)



HP-TLC CONDITIONS

STATIONARY PHASE	Silica gel 60, F ₂₅₄ , 10 x 10 cm HP-TLC plates
SAMPLE PREPARATION	0.5 g + 5 mL methanol, sonicated in hot water bath for ~10 minutes, then filtered through a 0.45 µm PTFE syringe filter
MOBILE PHASE	Toluene/ ethyl acetate/ formic acid/ methanol [6/6/1.6/0.8]
CHAMBER TEMPERATURE	Ambient
DETECTION	(1) UV 254 nm (2) UV 366 nm (3) Vanillin/H ₂ SO ₄ → White Light

HP-TLC PLATES



YELLOW LINE = SAMPLE ORIGIN
RED LINE = SOLVENT FRONT @ 70 mm

HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	Gallic acid	5	<i>Phyllanthus emblica</i> VBRM
2	<i>Phyllanthus emblica</i> VBRM	6	<i>Phyllanthus emblica</i> VBRM
3	<i>Phyllanthus emblica</i> VBRM	7	<i>Phyllanthus emblica</i> VBRM
4	<i>Phyllanthus emblica</i> VBRM	8	Gallic acid

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	09/26/2014	New report
01	08/28/2019	Passed re-evaluation by HP-TLC. Updated expiration date, HP-TLC conditions and plates.

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