

PRODUCT	<i>Vaccinium macrocarpon</i> (Cranberry) Fruit
PART NUMBER	00030679
REFERENCE TYPE	Biomass Reference Material (VBRM) *
LOT NUMBER	00030679-126
COMMON NAME	Cranberry
LATIN NAME	<i>Vaccinium macrocarpon</i> Aiton. [Ericaceae]
PLANT PART	Fruit
CDXA NUMBER	CDXA-BRM-126
REPORT NUMBER	CDXA-VBRMR-016-04
DATE OF SAMPLE	03/15/2006
DATE OF RE-EVALUATION	01/04/2012 (1 st); 04/18/2016 (2 nd); 04/16/2020 (3 rd)
DATE OF REPORT	06/09/2020



*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: Burgundy dried berries with red interior Milled: Bright pink powder
Anatomy/Morphology	Microscopy	(1) Seed testa (400x) (2) Starch granules showing a maltese cross under polar filter (100x)
HP-TLC	CDXA-TLCM-091-01	Conforms

STORAGE CONDITIONS

STORAGE	20-30 °C; Dry storage area; Insect free; Volatile free
EXPIRATION DATE	04/2025 under the above conditions

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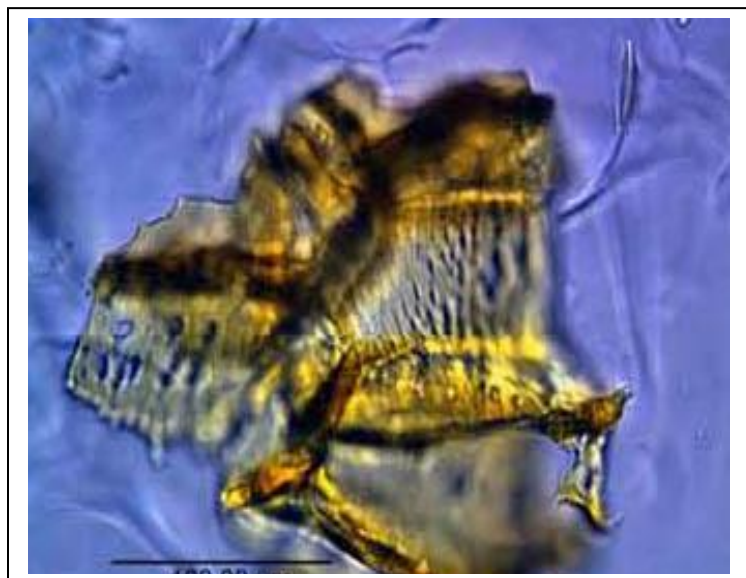
MACROSCOPY

(1)

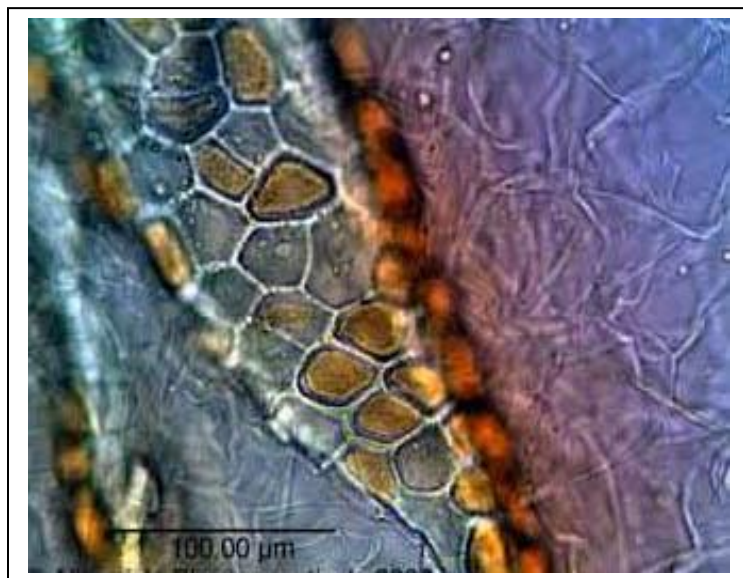


MICROSCOPY

(1)



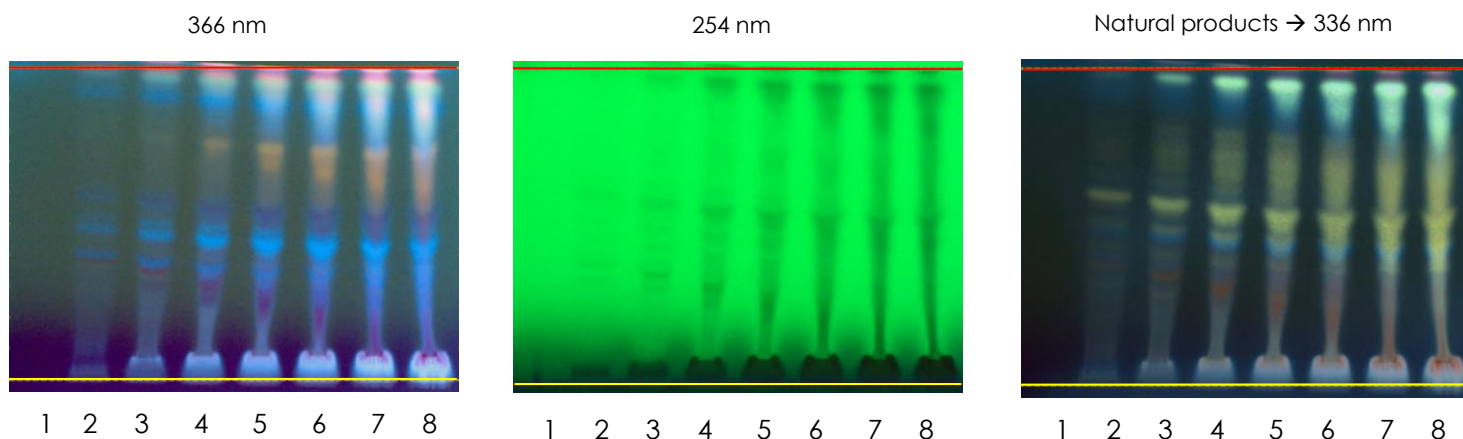
(2)



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.
MOBILE PHASE	Ethyl acetate/ formic acid/ glacial acetic acid/ Milli-Q water [10/1.1/1.1/2.6]
CHAMBER TEMPERATURE	Ambient
DETECTION	(1) UV 366 nm (2) UV 254 nm (3) Natural products reagent spray reagent → 366 nm

HP-TLC PLATES



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

HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	MeOH blank (2 µL)	5	<i>Vaccinium macrocarpon</i> (6 µL)
2	<i>Vaccinium macrocarpon</i> (1 µL)	6	<i>Vaccinium macrocarpon</i> (8 µL)
3	<i>Vaccinium macrocarpon</i> (2 µL)	7	<i>Vaccinium macrocarpon</i> (10 µL)
4	<i>Vaccinium macrocarpon</i> (4 µL)	8	<i>Vaccinium macrocarpon</i> (12 µL)

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	02/22/2007	New report
01	09/30/2009	Updated expiration date; report re-formatted.
02	01/04/2012	Passed re-evaluation; updated expiration date; updated TLC pictures; updated lane applications.
03	04/20/2016	Passed re-evaluation; updated expiration date; updated analytical results; updated analytical detection; updated lane applications; updated TLC pictures; general template update; added revision history
04	06/09/2020	Material passed re-evaluation by HPTLC. Updated expiration date, HPTLC plate images, method conditions, lane assignments, and template.

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