

PRODUCT	<i>Vaccinium macrocarpon</i> (Cranberry) Fruit
PART NUMBER	00031152
REFERENCE TYPE	Biomass Reference Material (BRM) *
LOT NUMBER	00031152-410
COMMON NAME	Cranberry
LATIN NAME	<i>Vaccinium macrocarpon</i> Aiton. [Ericaceae]
PLANT PART	Fruit
CDXP NUMBER	CDXA-10-1727
REPORT NUMBER	CDXA-BRMR-139-02
DATE OF SAMPLE	03/08/2011
DATE OF RE-EVALUATION	02/26/2016 (1 st); 04/21/2020 (2 nd)
DATE OF REPORT	06/10/2020

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

ANALYTICAL RESULTS

TEST	METHOD	RESULT
Appearance	Macroscopy	(1) Milled: Pink powder
Anatomy/Morphology	Microscopy	(1) Exocarp showing naturally occurring red anthocyanin pigments (100x) (2) Reticulately thickened cells of the testa (200x)
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

This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.

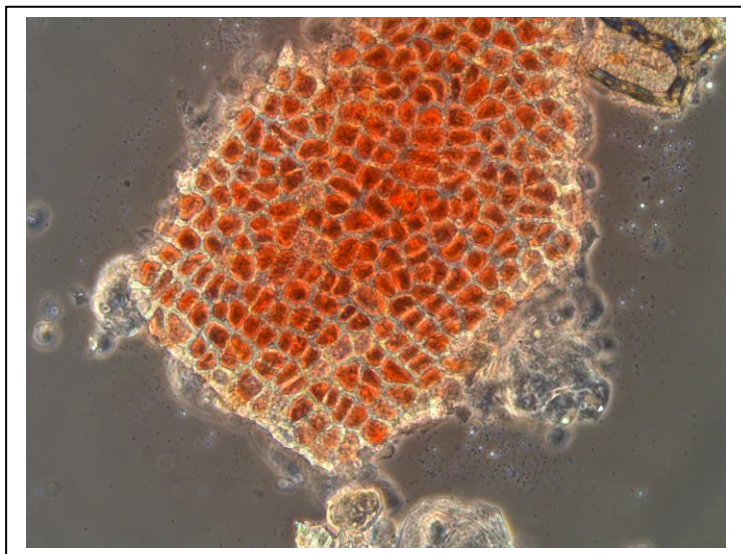
MACROSCOPY

(1)

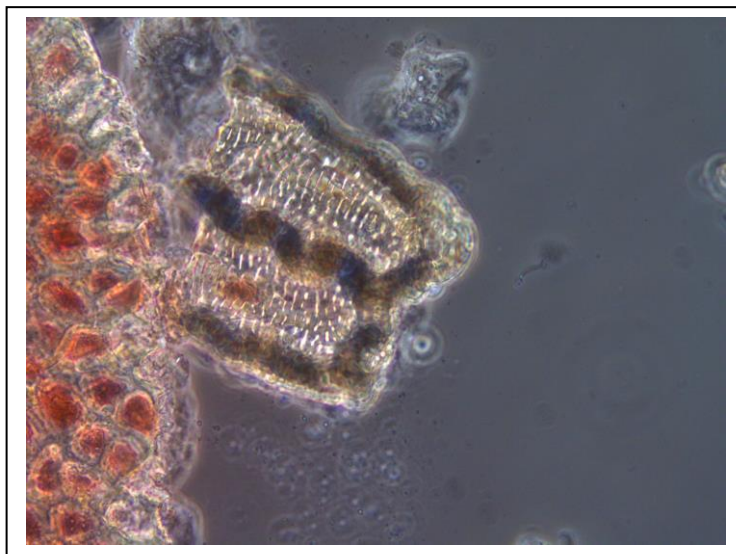


MICROSCOPY

(1)



(2)

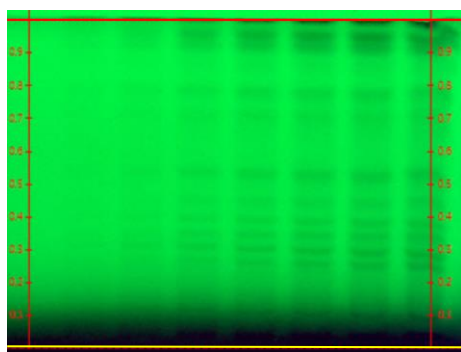


HP-TLC CONDITIONS

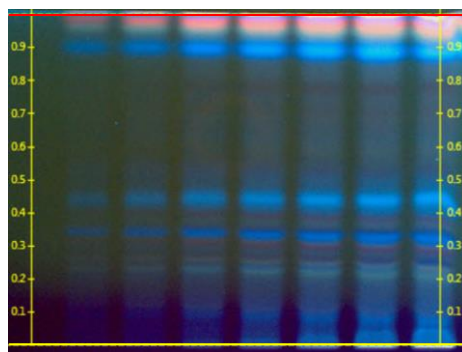
STATIONARY PHASE	Silica gel 60, F ₂₅₄ , 10 x 10 cm HP-TLC plates
SAMPLE PREPARATION	~0.5 g + 5 mL methanol, sonicated in hot water bath for ~10 minutes.
MOBILE PHASE	Ethyl acetate/ formic acid/ acetic acid/ Milli-Q water [10/1.1/1.1/2.6]
CHAMBER TEMPERATURE	Ambient
DETECTION	(1) UV 254 nm (2) UV 366 nm (3) Natural Products reagent → UV 366 nm

HP-TLC PLATES

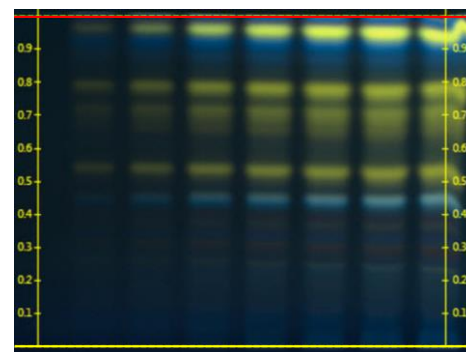
UV 254 nm



UV 366 nm



Natural products reagent → UV 366 nm



1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

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

HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	MeOH blank 2.0 µL	5	<i>Vaccinium macrocarpon</i> 6.0 µL
2	<i>Vaccinium macrocarpon</i> 1.0 µL	6	<i>Vaccinium macrocarpon</i> 8.0 µL
3	<i>Vaccinium macrocarpon</i> 2.0 µL	7	<i>Vaccinium macrocarpon</i> 10.0 µL
4	<i>Vaccinium macrocarpon</i> 4.0 µL	8	<i>Vaccinium macrocarpon</i> 12.0 µL

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	09/15/2011	New report
01	03/07/2016	Passed re-evaluation; updated expiration date; general template update; updated detection; updated TLC pictures; added revision history
02	06/10/2020	Material passed reevaluation by HPTLC. Updated template, expiration date, TLC conditions, plate images, and lane applications.

This document is the property of ChromaDex, Inc. and/or its relevant affiliates and contains confidential and proprietary material for the sole use of the intended recipient(s). Any review, use, distribution or disclosure by or to others is strictly prohibited.