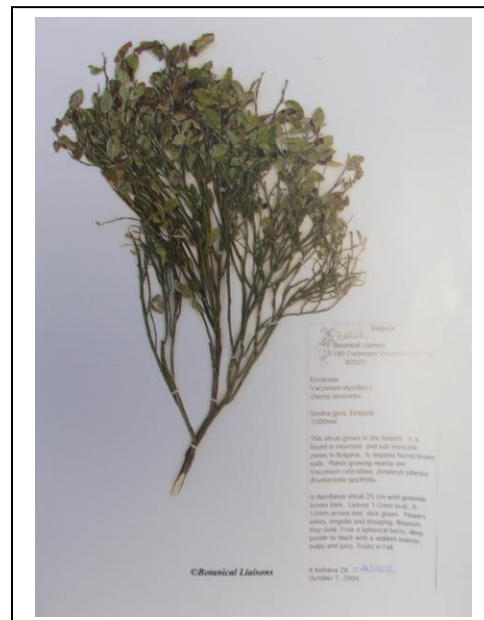


<b>PRODUCT</b>	<i>Vaccinium myrtillus</i> (Bilberry) Fruit
<b>PART NUMBER</b>	00030090
<b>REFERENCE TYPE</b>	Biomass Reference Material (VBRM) *
<b>LOT NUMBER</b>	00030090-060
<b>COMMON NAME</b>	Bilberry
<b>LATIN NAME</b>	<i>Vaccinium myrtillus</i> L. [Ericaceae]
<b>PLANT PART</b>	Fruit
<b>CDXA NUMBER</b>	CDXA-BRM-060
<b>REPORT NUMBER</b>	CDXA-VBRMR-066-03
<b>DATE OF SAMPLE</b>	08/14/2003
<b>DATE OF RE-EVALUATION</b>	03/31/2012 (1 <sup>st</sup> ); 03/17/2016 (2 <sup>nd</sup> ); 04/16/2020 (3 <sup>rd</sup> )
<b>DATE OF REPORT</b>	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: Globular, coarsely wrinkled, black berries up to 6 mm in diameter Milled: Dark purple powder
Anatomy/Morphology	Microscopy	(1) A sheet of thick walled sclereids
HP-TLC	CDXA-TLCM-122-01	Conforms

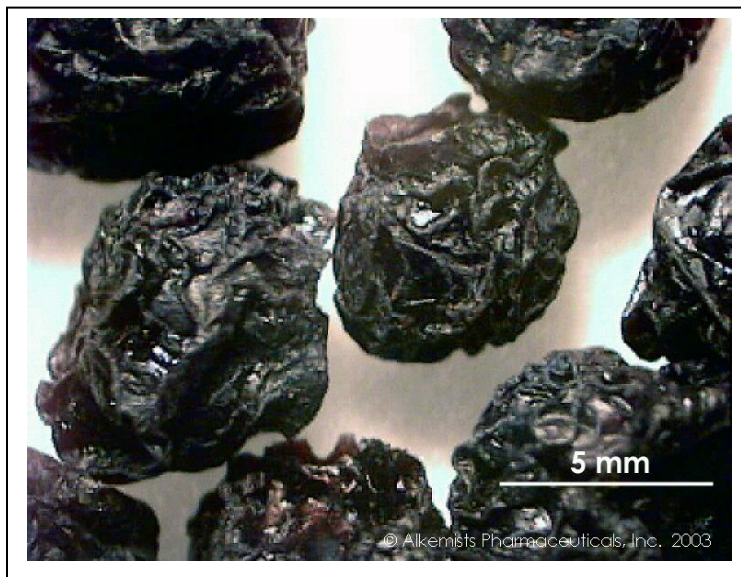
## STORAGE CONDITIONS

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

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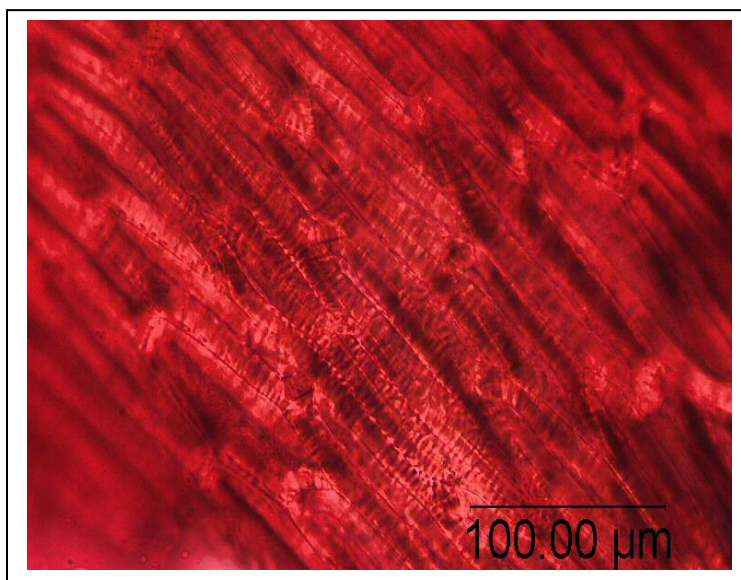
## MACROSCOPY

(1)



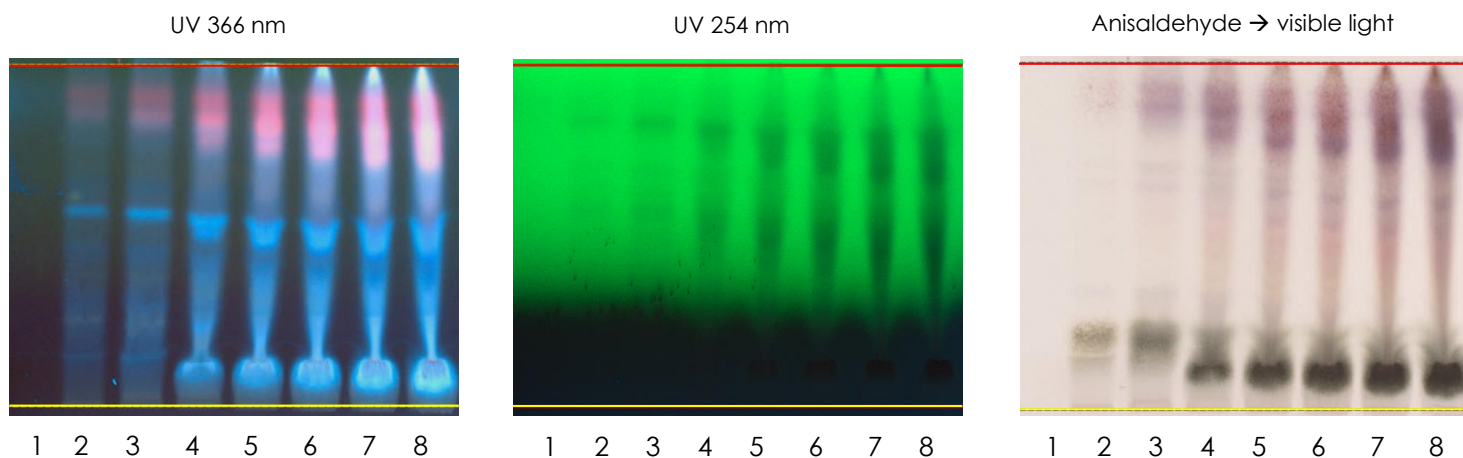
## MICROSCOPY

(1)



**HP-TLC CONDITIONS**

<b>STATIONARY PHASE</b>	Silica gel 60, F <sub>254</sub> , 10 x 10 cm HP-TLC plates
<b>SAMPLE PREPARATION</b>	~0.5 g + 5 ml methanol, sonicated in hot water bath for ~10 minutes.
<b>MOBILE PHASE</b>	Butanol/ formic acid/ Milli-Q water [8/2/3]
<b>CHAMBER TEMPERATURE</b>	Ambient
<b>DETECTION</b>	(1) UV 366 nm (2) UV 254 nm (3) Anisaldehyde → visible light

**HP-TLC PLATES**


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

**HP-TLC LANE APPLICATIONS**

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

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	09/18/2007	New report
01	03/31/2012	Passed re-evaluation; updated expiration date; general template update; updated TLC method; updated TLC pictures
02	03/18/2016	Passed re-evaluation; updated expiration date; general template update; updated TLC method; updated TLC pictures
03	06/09/2020	Passed re-evaluation by HPTLC. Updated expiration date, HPTLC conditions, plate images, and lane applications.

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