

<b>PRODUCT</b>	<i>Urtica dioica</i> (Stinging nettle) Leaf
<b>PART NUMBER</b>	00030449
<b>REFERENCE TYPE</b>	Biomass Reference Material (BRM) *
<b>LOT NUMBER</b>	00030449-108
<b>COMMON NAME</b>	Stinging Nettle
<b>LATIN NAME</b>	<i>Urtica dioica</i> L. [Urticaceae]
<b>PLANT PART</b>	Leaf
<b>CDXP NUMBER</b>	CDXA-BRM-108
<b>REPORT NUMBER</b>	CDXA-BRMR-029-03
<b>DATE OF SAMPLE</b>	01/27/2004
<b>DATE OF RE-EVALUATION</b>	01/30/2012 (1 <sup>st</sup> ); 04/25/2016 (2 <sup>nd</sup> ); 04/20/2020 (3 <sup>rd</sup> )
<b>DATE OF REPORT</b>	06/10/2020

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

## ANALYTICAL RESULTS

TEST	METHOD	RESULT
Appearance	Macroscopy	(1) Milled: Olive green powder
Anatomy/Morphology	Microscopy	(1) Large cysoliths
HP-TLC	CDXA-TLCM-049-01	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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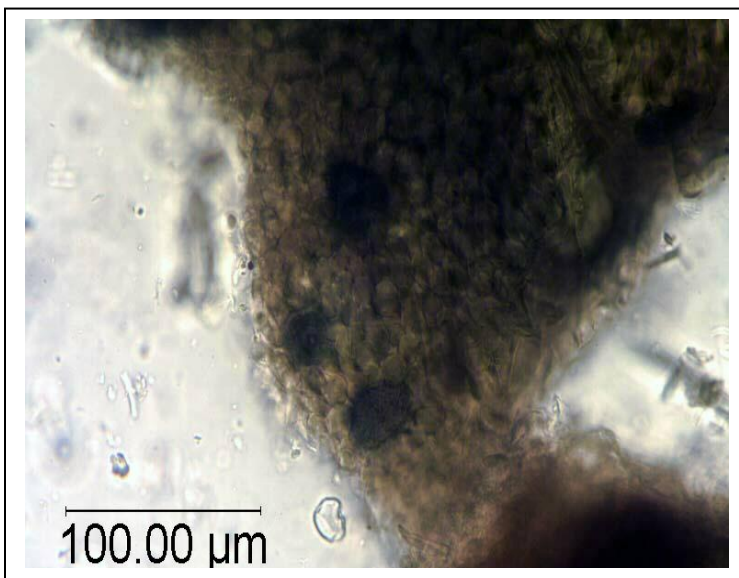
## MACROSCOPY

(1)



## MICROSCOPY

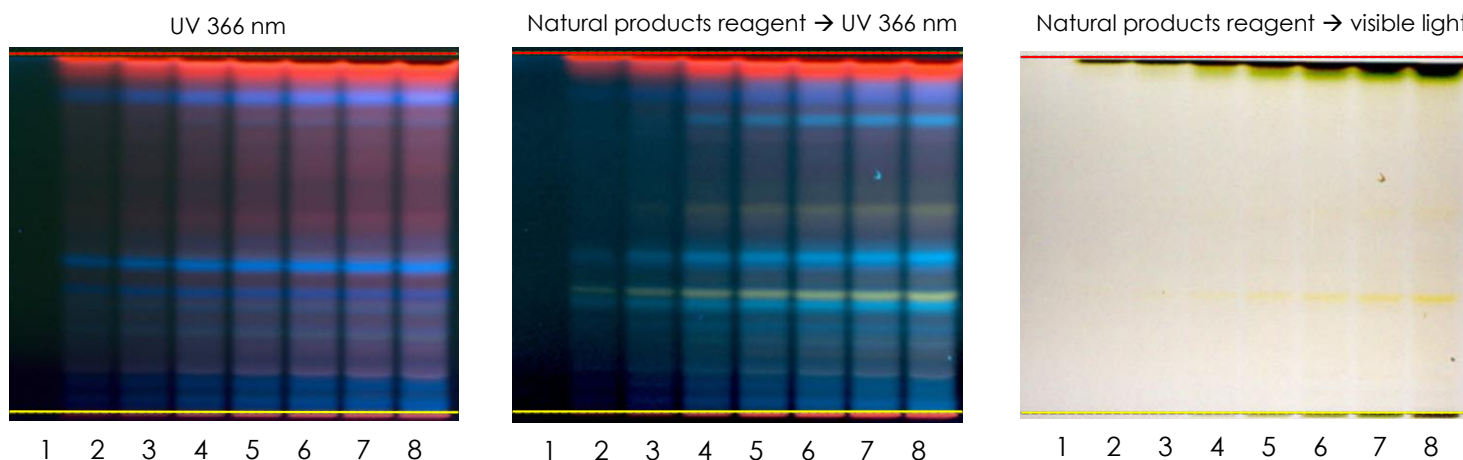
(1)



## 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>	Ethyl acetate/ formic acid/ acetic acid/ Milli-Q water [10/1.1/1.1/2.6]
<b>CHAMBER TEMPERATURE</b>	Ambient
<b>DETECTION</b>	(1) UV 366 nm (2) Natural Products reagent → UV 366 nm (3) Natural Products reagent → 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>Urtica dioica</i> 6.0 µL
2	<i>Urtica dioica</i> 1.0 µL	6	<i>Urtica dioica</i> 8.0 µL
3	<i>Urtica dioica</i> 2.0 µL	7	<i>Urtica dioica</i> 10.0 µL
4	<i>Urtica dioica</i> 4.0 µL	8	<i>Urtica dioica</i> 12.0 µL

**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	06/18/2007	New report
01	01/30/2012	Passed re-evaluation; updated expiration date; general template update; updated TLC conditions; updated TLC lane applications; updated TLC method; updated TLC pictures
02	04/25/2016	Passed re-evaluation; updated expiration date; general template update; updated TLC conditions; updated TLC lane applications; updated TLC pictures; updated TLC pictures
03	06/10/2020	Material passed reevaluation by HPTLC. Updated template, expiration date, TLC conditions, plate images, and lane assignments.

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