PRODUCT	*Beta vulgaris* (Beet) Root
PART NUMBER	00031069
REFERENCE TYPE	Biomass Reference Material (BRM) *
LOT NUMBER	00031069-22528-XP
COMMON NAME	Beet
LATIN NAME	*Beta vulgaris L.* [Chenopodiaceae]
PLANT PART	Root
SAMPLE NUMBER	CDXP-21-00062
REPORT NUMBER	CDXA-BRM-201-00
DATE OF SAMPLE	02/01/2021
DATE OF REPORT	03/01/2021

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

ANALYTICAL RESULTS

TEST	METHOD	RESULT
Appearance	Macroscopy	(1) Milled: Fine burgundy powder
Anatomy/Morphology	Microscopy – 400x	(1) Parenchyma with pink pigment showing outer layer of orange pigmented cork (2) Fragments of reticulated vessels
HP-TLC	See HP-TLC conditions	Conforms

STORAGE CONDITIONS

STORAGE 20-30 °C; Dry storage area; Insect free; Volatile free

EXPIRATION DATE 02/2026 under the above conditions

Elizabeth Hughes
Quality Assurance
Specialist

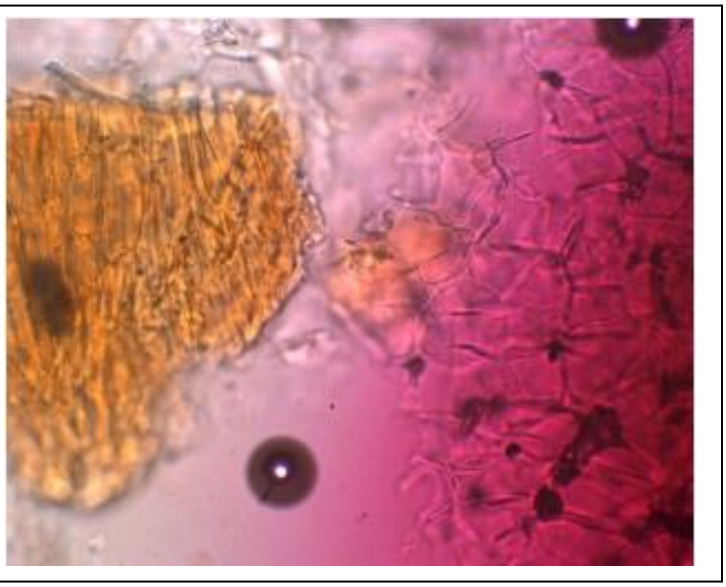
Digitally signed by Elizabeth Hughes
Date: 2021.03.01 14:56:17 -07'00'

MACROSCOPY

(1)

MICROSCOPY

(1)



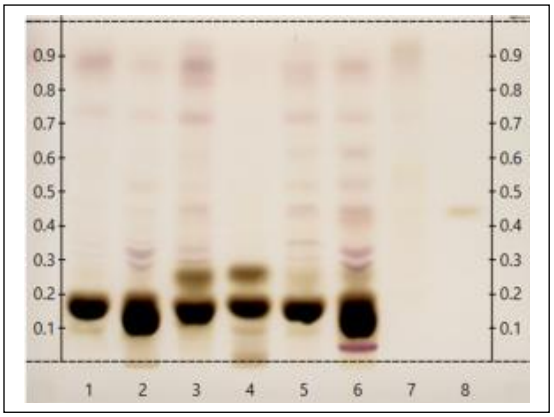
(2)

HP-TLC CONDITIONS

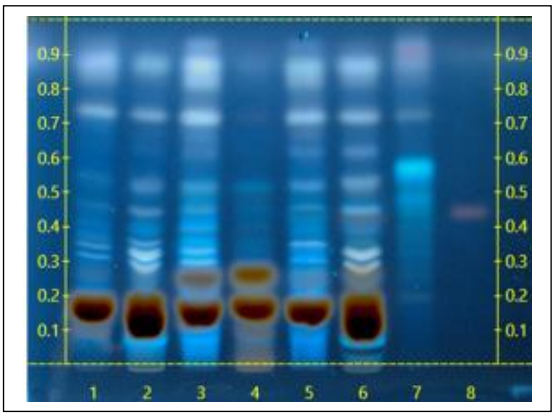
STATIONARY PHASE	Silica gel 60, HPTLC plates
SAMPLE PREPARATION	0.3 g + 3 mL Methanol, sonicate/heat at 50 °C for 30 min.
MOBILE PHASE	n-Butanol: Acetic acid: Water [6/1.5/2.5]
DETECTION	(1) 10% Sulfuric, 100 °C, 2min, Visible light (2) 10% Sulfuric, 100 °C, 2min, 366 nm

HP-TLC PLATES

HP-TLC (1)



HP-TLC (2)



HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	*Beta vulgaris* root (4 µL)	**5**	*NA*
2	*Beta vulgaris* root (2 µL)	**6**	*NA*
3	*Beta vulgaris* BRM (4 µL)	**7**	*Beta vulgaris* aerial part (4 µL)
4	*NA*	**8**	(-)-Adensosine (2 µL)

REVISION HISTORY

Revision History	Date of Revision	Document/Changes
00	03/01/2021	New report