





SPECIMEN

For Laboratory Use Only

Certificate of Analysis

PRODUCT	Linum usitatissimum (Flax seed) Seed	
PART NUMBER	00030250	
REFERENCE TYPE	Biomass Reference Material (BRM) *	
LOT NUMBER	00030250-253	
COMMON NAME	Flax Seed	
LATIN NAME	Linum usitatissimum L. [Linaceae]	
PLANT PART	Seed	
SAMPLE NUMBER	CDXP-22-00607	
REPORT NUMBER	CDXA-BRM-229-00	
DATE OF SAMPLE	07/07/2022	

08/03/2022

ANALYTICAL RESULTS

DATE OF REPORT

TEST	METHOD	RESULT
Appearance	Macroscopy	(1) Whole/Cut: seed with a flattened, elongated ovoid shape, testa is dark reddishbrown or yellow, smooth and shiny, 4-6 mm long, 2-3 mm wide; one end is rounded and the other end forms an oblique point near which the hilum appears as a slight depression (2) Milled: Brown powder
Anatomy/Morphology	Microscopy (acidified chloral hydrate glycerol solution)	(1) (400x) - fragment of the inner testa(2) (400x) - overlapping sclerenchymatous and subepidermal layers
HP-TLC	See HP-TLC conditions	Conforms

STORAGE CONDITIONS

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

EXPIRATION DATE 07/2027 under the above conditions

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^{*}Note - Biomass Reference Material (BRM) is not a voucher specimen







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MACROSCOPY



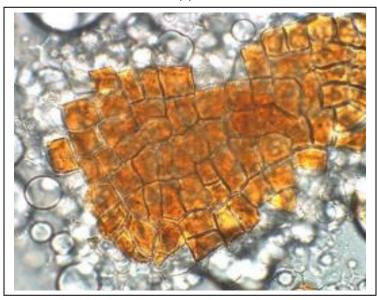
(1)



(2)

MICROSCOPY

(1)





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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.

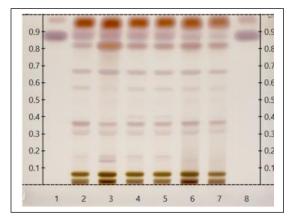
MOBILE PHASE Chloroform: Methanol: Water [6.2/2.6/0.4]

DETECTION (1) 10% Sulfuric, 100°C, 2min, Visible light

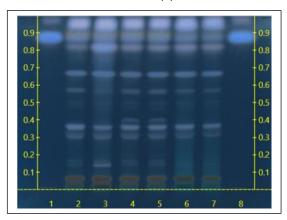
(2) 10% Sulfuric, 100°C, 2min, 366nm

HP-TLC PLATES





HP-TLC (2)



HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	β-Sitosterol, Methanol (3 μL)	5	Linum usitatissimum BRM (6 μL)
2	Linum usitatissimum Seed(6 µL)	6	Linum usitatissimum Hull (6 µL)
3	Linum usitatissimum Seed (6 µL)	7	Linum usitatissimum Hull (4 µL)
4	Linum usitatissimum BRM (6 µL)	8	β-Sitosterol, Methanol (3 μL)

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	08/01/2022	New report

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