

PRODUCT	<i>Trigonella foenum-graecum</i> (Fenugreek) Seed
PART NUMBER	00030815
REFERENCE TYPE	Biomass Reference Material (VBRM) *
LOT NUMBER	00030815-321
COMMON NAME	Fenugreek
LATIN NAME	<i>Trigonella foenum-graecum</i> L. [Fabaceae]
PLANT PART	Seed
SAMPLE NUMBER	CDXP-21-00430
REPORT NUMBER	CDXA-VBRM-202-00
DATE OF SAMPLE	06/08/2021
DATE OF REPORT	07/16/2021



*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: Hard, flattened, brown or reddish-brown and more or less rhomboidal seeds with rounded edges. (2) Milled: Yellow powder
Anatomy/Morphology	Microscopy (400x, acidified chloral hydrate glycerol solution)	(1) Fragments of the testa with lageniform epidermal cells (2) Cells of the hypodermis with bar-like thickenings
HP-TLC	See HP-TLC conditions	Conforms

STORAGE CONDITIONS

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

EXPIRATION DATE 06/2026 under the above conditions

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MACROSCOPY

(1)



(2)

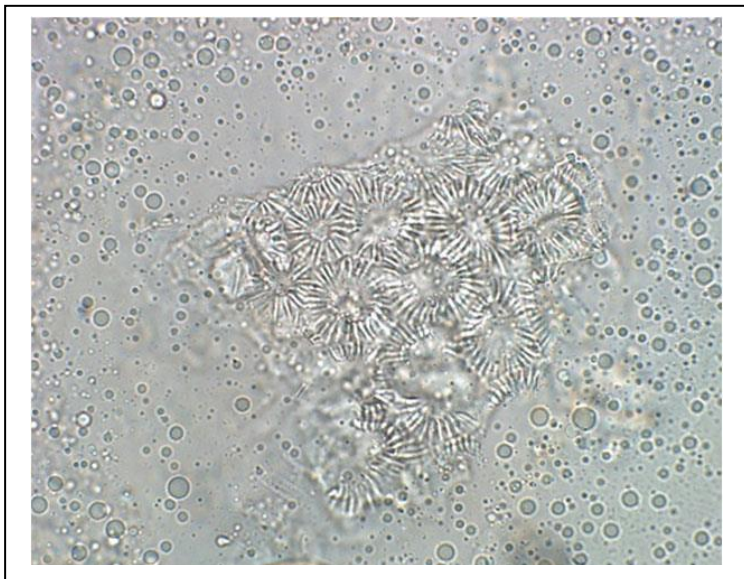


MICROSCOPY

(1)



(2)



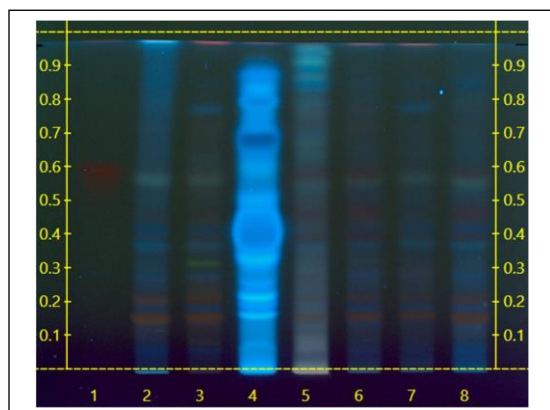
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HP-TLC CONDITIONS

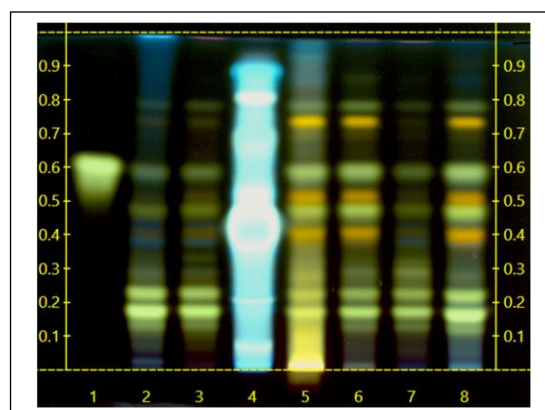
STATIONARY PHASE	Silica gel 60, HPTLC plates
SAMPLE PREPARATION	0.3 g + 3 mL Methanol, sonicate/heat at 50 °C for 30 min.
MOBILE PHASE	Ethyl acetate/ Acetic acid/ Formic acid/ Water [10/0.9/0.9/2]
DETECTION	(1) UV 366 nm (2) Preheat at 110 °C, 3 min, Natural Product, 366 nm

HP-TLC PLATES

HP-TLC (1)



HP-TLC (2)



HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	Vitexin (3 µL)	5	N/A
2	<i>Trigonella foenum-graecum</i> (seed) (3 µL)	6	N/A
3	<i>Trigonella foenum-graecum</i> VBRM (3 µL)	7	N/A
4	N/A	8	<i>Trigonella foenum-graecum</i> (seed) (3 µL)

REVISION HISTORY

Revision History	Date of Revision	Document/Changes
00	07/16/2021	New report

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