

PRODUCT	<i>Aesculus hippocastanum</i> (Horse Chestnut) Seed
PART NUMBER	00030627
REFERENCE TYPE	Biomass Reference Material (BRM) *
LOT NUMBER	00030627-572
COMMON NAME	Horse Chestnut
LATIN NAME	<i>Aesculus hippocastanum</i> L. [Hippocastanaceae]
PLANT PART	Seed
SAMPLE NUMBER	CDXA-17-001404
REPORT NUMBER	CDXA-BRMR-177-01
DATE OF SAMPLE	02/01/2017
DATE OF REEVALUATION	02/03/2021
DATE OF REPORT	02/22/2020

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

ANALYTICAL RESULTS

TEST	METHOD	RESULT
Appearance	Macroscopy	(1) Whole/Cut: Fragments of seed (~3 cm), brown shell and off-white cotyledon (2) Milled: Tan powder
Anatomy/Morphology	Microscopy	(400x) - Parenchymatous cells forming a spongy tissue in the greater part of the testa
HP-TLC	See HP-TLC conditions	Conforms

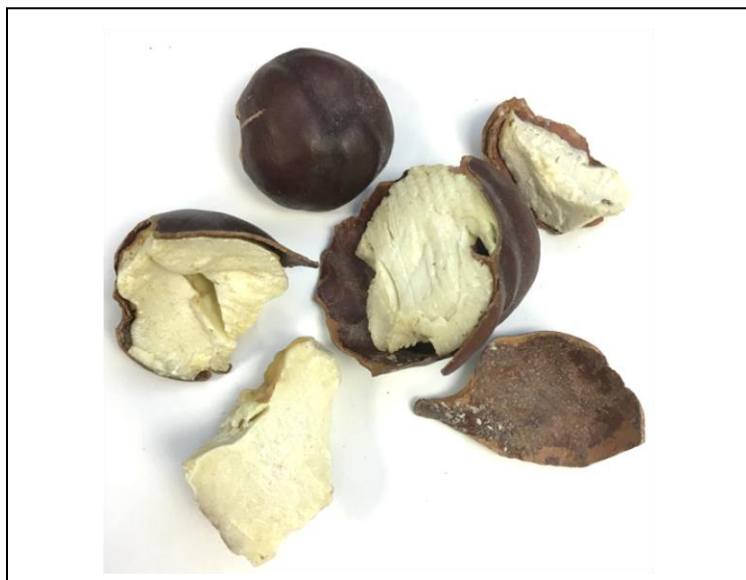
STORAGE CONDITIONS

STORAGE	20-30 °C; Dry storage area; Insect free; Volatile free
EXPIRATION DATE	02/2026 under the above conditions

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MACROSCOPY

(1)

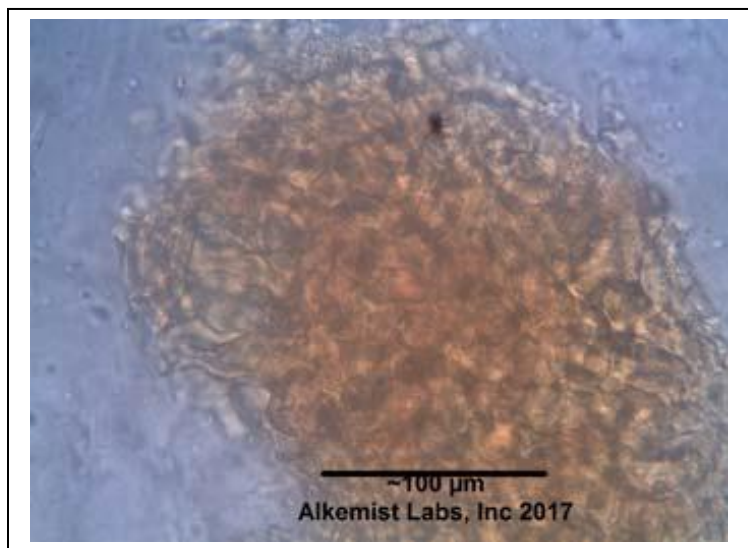


(2)



MICROSCOPY

(1)



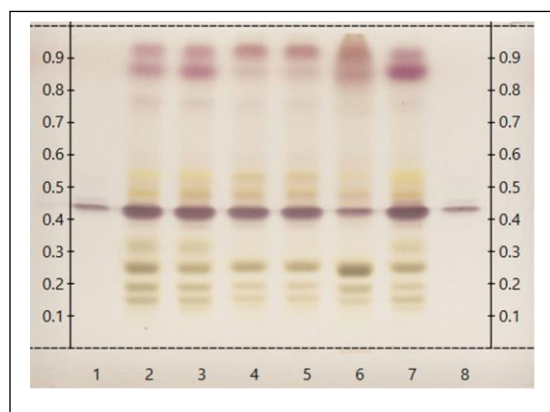
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HP-TLC CONDITIONS

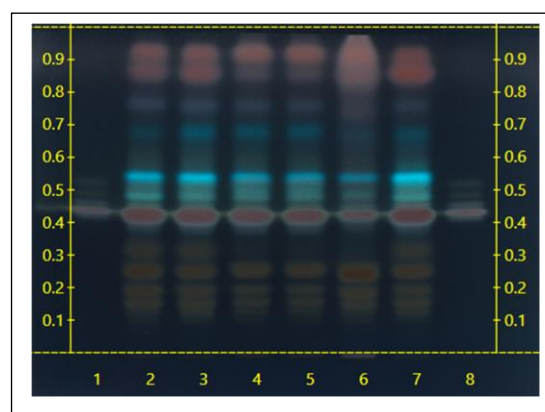
STATIONARY PHASE	Silica gel 60, HPTLC plates
SAMPLE PREPARATION	0.3 g + 3 mL Methanol, sonicate/heat at 50 °C for 30 min.
MOBILE PHASE	n-Propanol: Ethyl Acetate: Acetic acid: water [4/3/0.15/3]
DETECTION	(1) Anisaldehyde/Sulfuric, 100°C, 2min, vis (2) Anisaldehyde/Sulfuric, 100°C, 2min, 366nm

HP-TLC PLATES

HP-TLC (1)



HP-TLC (2)


HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	Escin Standard (3 µL)	5	<i>Aesculus hippocastanum</i> BRM (5 µL)
2	<i>Aesculus hippocastanum</i> (seed) (5 µL)	6	<i>Aesculus hippocastanum</i> (seed) (5 µL)
3	<i>Aesculus hippocastanum</i> (seed) (5 µL)	7	<i>Aesculus hippocastanum</i> (seed) (5 µL)
4	<i>Aesculus hippocastanum</i> BRM (5 µL)	8	Escin Standard (3 µL)

REVISION HISTORY

Revision History	Date of Revision	Document/Changes
00	04/17/2017	New report
01	02/22/2021	Material passed reevaluation by HP-TLC. Updated expiration date conditions, HP-TLC plates, and template.

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