

PRODUCT	<i>Astragalus membranaceus</i> (Astragalus) Root
PART NUMBER	00030073
REFERENCE TYPE	Biomass Reference Material (BRM) *
LOT NUMBER	00030073-092
COMMON NAME	Atragalus
LATIN NAME	<i>Astragalus membranaceus</i> (Fisch. Ex Link) Bunge [Fabaceae]
PLANT PART	Root
SAMPLE NUMBER	CDXP-18-00641
REPORT NUMBER	CDXA-BRMR-004-04
DATE OF SAMPLE	04/04/2004
DATE OF REEVALUATION	10/31/2008 (1 st); 07/01/2013 (2 nd); 06/21/2018 (3 rd); 05/06/2022 (4 th)
DATE OF REPORT	06/03/2022

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

ANALYTICAL RESULTS

TEST	METHOD	RESULT
Appearance	Macroscopy	(1) Whole/Cut: Whole/Cut: Yellow slices of root showing external pale grayish/yellow bark and powdered root showing yellow splinters (1) Milled: Yellow fibrous shredded powder
Anatomy/Morphology	Microscopy	Digital Image (see below)
HP-TLC	See HP-TLC conditions	Conforms

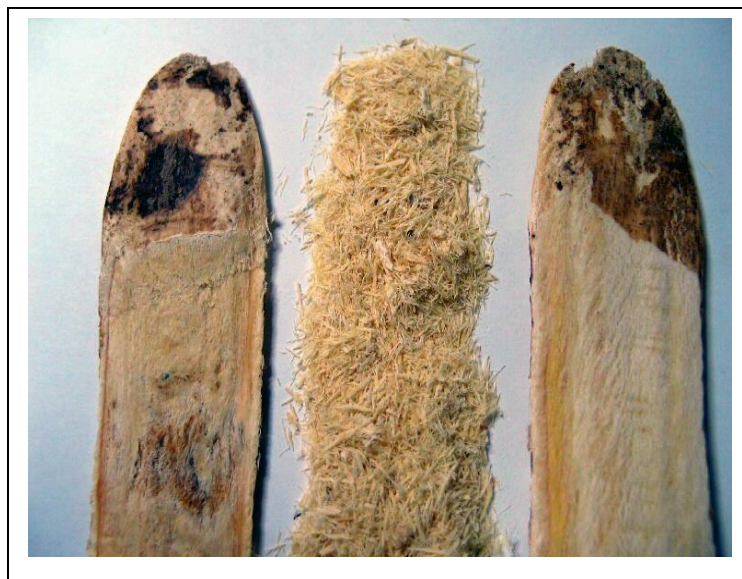
STORAGE CONDITIONS

STORAGE	20-30 °C; Dry storage area; Insect free; Volatile free
EXPIRATION DATE	05/2027 under the above conditions

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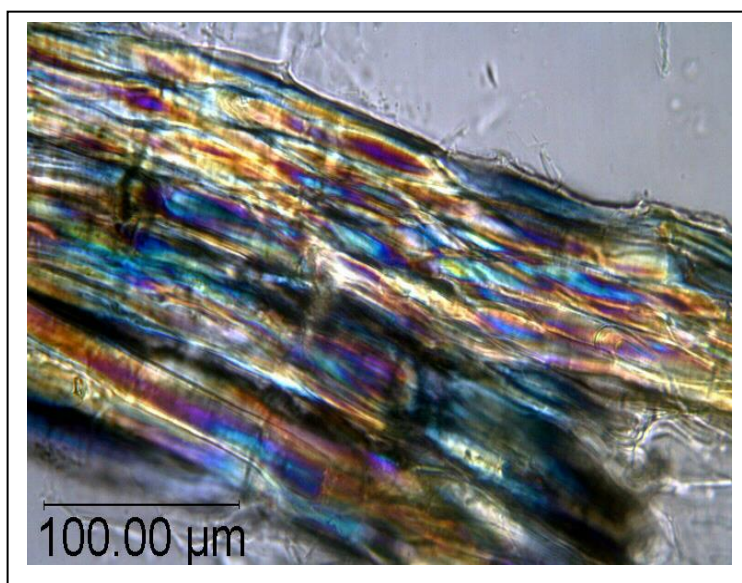
MACROSCOPY

(1)



MICROSCOPY

(1)



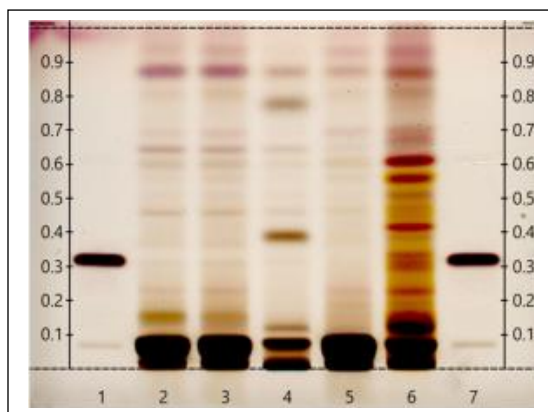
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HP-TLC CONDITIONS

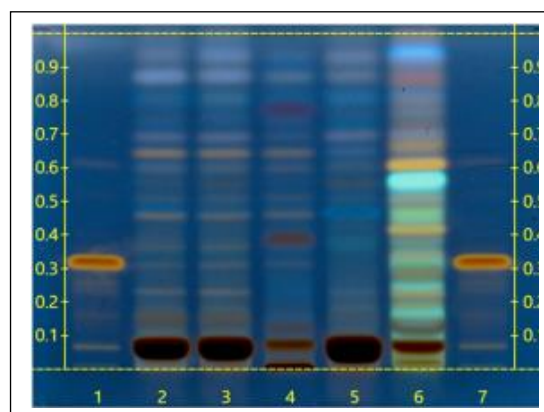
STATIONARY PHASE	Silica gel 60, HPTLC plates
SAMPLE PREPARATION	0.3 g + 3 mL 70% grain Ethanol, sonicate/heat at 50 °C for 30 min.
MOBILE PHASE	Chloroform: Methanol: Water [9/4/0.5]
DETECTION	(1) 10% Sulfuric, 100°C, 2min, Visible light (2) 10% Sulfuric, 100°C, 2min, UV 366 nm

HP-TLC PLATES

HP-TLC (1)



HP-TLC (2)



HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	Astragaloside IV (3 µL)	5	<i>Astragalus membranaceus</i> BRM (5 µL)
2	<i>Astragalus mongholicus</i> / <i>membranaceus</i> (root) (5 µL)	6	<i>Astragalus mongholicus</i> / <i>membranaceus</i> (herb (leaf, stem)) (5 µL)
3	<i>Astragalus mongholicus</i> / <i>membranaceus</i> (root) (5 µL)	7	Astragaloside IV (3 µL)
4	NA	8	NA

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REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	04/04/2004	New report
01	10/31/2008	Passed re-evaluation; updated expiration date; general template update
02	07/01/2013	Passed second re-evaluation; updated expiration date; general template update
03	08/30/2018	Passed third re-evaluation; updated expiration date HP-TLC conditions, and HP-TLC plates.
04	06/03/2022	Passed fourth re-evaluation; updated expiration date HP-TLC conditions, and HP-TLC plates.

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