Identification of Easily Confused Species of Chinese Materia Medica in Hong Kong by Macroscopic and Microscopic Characteristics Project

Cortex Lycii _{versus} Lycii Radix



Source

***Cortex Lycii** is the dried root bark of *Lycium chinense* Mill. or *L. barbarum* L. in the family Solanaceae

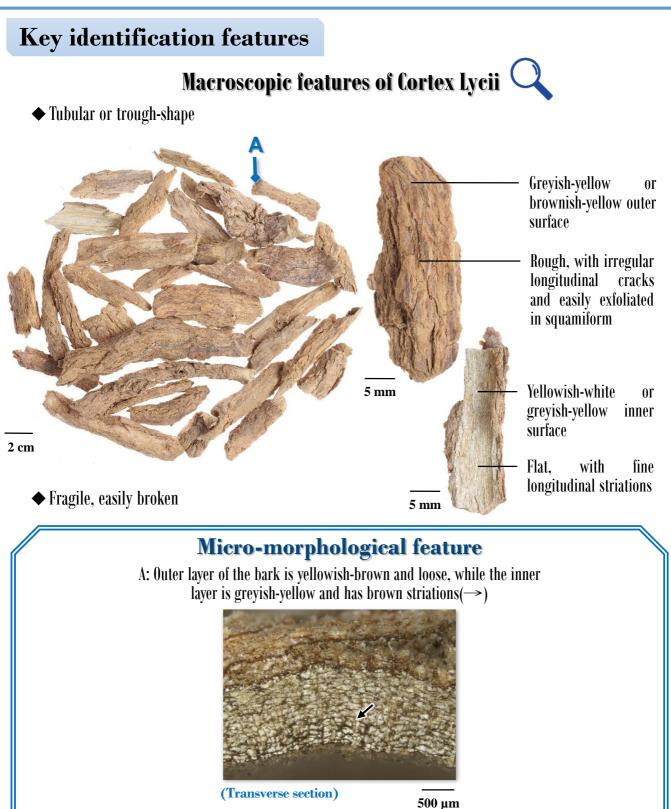
Lycii Radix is the dried root of *Lycium chinense* Mill. in the family Solanaceae

Overview

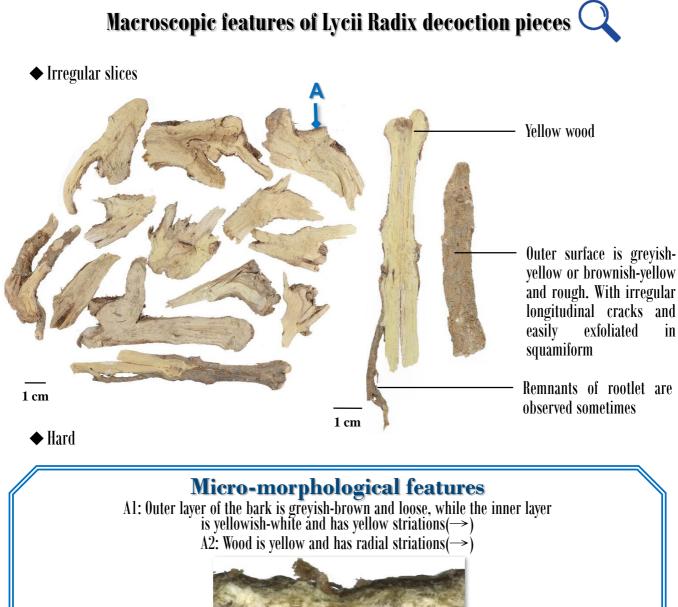
Cortex Lycii is a Chinese Materia Medica (CMM) listed in Schedule 2 of the Chinese Medicine Ordinance and the Chinese Pharmacopoeia (2020), while Lycii Radix has not been recorded in either references. According to the *Modern Chinese Materia Medica*, Cortex Lycii is mainly produced in Shanxi and Henan provinces and sold all over China. Lycii Radix is recorded in *Guang dong zhong yao zhi*, *Chinese Materia Medica Standards in Guangdong Province and Rules for Preparation of Chinese Medicines Decoction Pieces in Shang hai*. It can dispel dampness-fire, dispel deficiency heat, and clear lung fire. According to the Chinese Pharmacopoeia, Cortex Lycii can cool the blood and eliminate steam, clear the lung and downbear fire. As the medicinal parts and efficacy of the two CMM differ, they should be used accordingly.

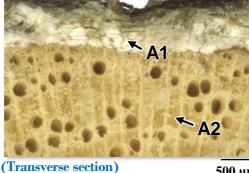
Note: *Its name in the Chinese Pharmacopoeia (2020) is "Lycii Cortex".

Cortex Lycii vs Lycii Radix



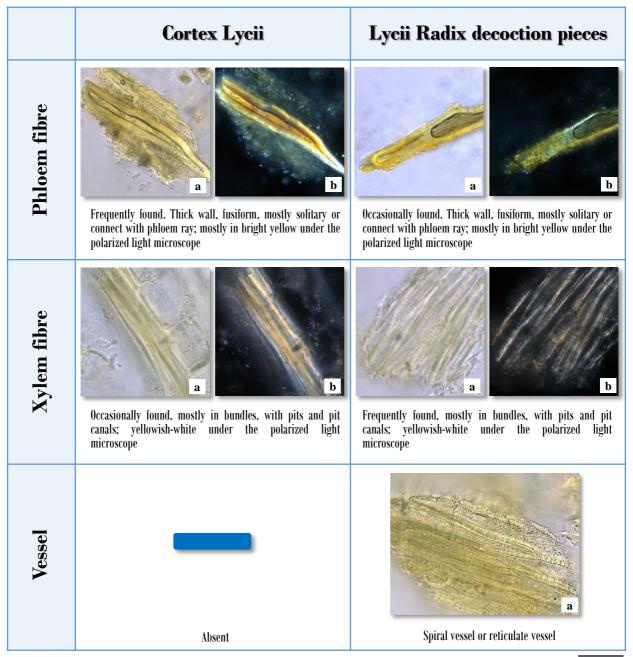
Cortex Lycii vs Lycii Radix





500 µm

Microscopic feature comparison of Cortex Lycii and Lycii Radix decoction pieces powder



a. features under bright field; b. features under polarized light

 $50\,\mu m$

Summary

Major differences in the features between Cortex Lycii and Lycii Radix decoction pieces:

		Cortex Lycii	Lycii Radix decoction pieces
Macroscopic and micro-morphological features	Shape	Tubular or trough-shape	Irregular slices
	Wood	Absent	Yellow, with radial striations
Microscopic features	Phloem fibre	Frequently found	Occasionally found
	Xylem fibre	Occasionally found	Frequently found
	Vessel	Absent	Present

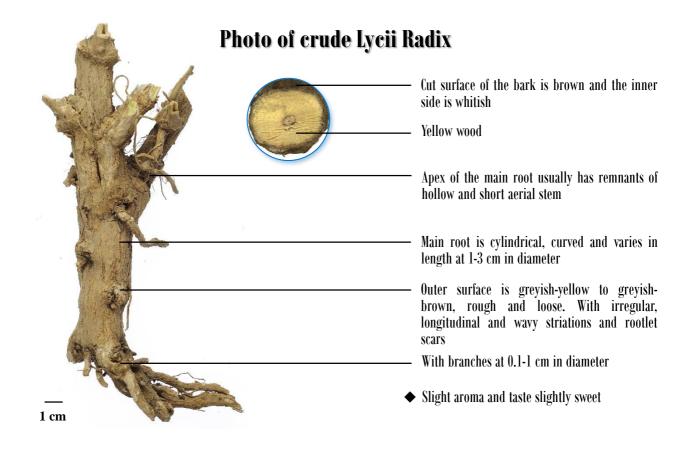
For more information, please refer to the Hong Kong Chinese Materia Medica

Standards website:



Cortex Lycii - Hong Kong Chinese Materia Medica Standards (Volume 6)

Additional information





Government Chinese Medicines Testing Institute Department of Health Enquiry Hotline: 3188 8079 Department of Health Website: www.cmro.gov.hk

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