

THE AYURVEDIC PHARMACOPOEIA OF INDIA

PART- I VOLUME – I



GOVERNMENT OF INDIA
MINISTRY OF HEALTH AND FAMILY WELFARE
DEPARTMENT OF AYUSH

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27. Guduchi (St)

GUḌŪCĪ

Guḍūcī consists of dried, matured pieces of stem of *Tinospora cordifolia* (Willd.) Miers. (Fam, Menispermaceae), a perennial climber found throughout Tropical India, drug collected during summer preferably in the month of May, drug is used in fresh form also.

SYNONYMS

Sanskrit	:	Amṛtavallī, Amṛtā, Madhuparṇī, Guḍūcikā, Chinnobhavā
Assamese	:	Siddhilata, Amarlata
Bengali	:	Gulanča
English	:	--
Gujrati	:	Galac, Garo
Hindi	:	Giloe, Gurcha
Kannada	:	Amrutaballi
Kashmiri	:	Amrita, Gilo
Malayalam	:	Chittamrutu
Marathi	:	Gulvel
Oriya	:	Guluchi
Punjabi	:	Gilo
Tamil	:	Seendal, Seendil kodi
Telugu	:	Thippateega
Urdu	:	Gilo

DESCRIPTION

a) Macroscopic

Drug occurs in pieces of varying thickness ranging from 0.6-5 cm in diameter, young stems green with smooth surfaces and swelling at nodes, older ones show a light brown surface marked with warty protuberances due to circular lenticels, transversely smoothed surface shows a radial structure with conspicuous medullary rays traversing porous tissues, taste bitter.

b) Microscopic

Transverse section of stem shows outer-most layer of cork, differentiating into outer zone of thick-walled brownish and compressed cells, inner zone of thin walled colourless, tangentially arranged 3-4 rows of cells, cork broken at some places due to opening of lenticels, followed by 5 or more rows of secondary cortex of which the cells of outer rows smaller than the inner one, just within the opening of lenticels, groups of sclereids consisting of 2-10 cells found in secondary cortex region, outer zone of cortex consists of 3--5 rows of irregularly arranged, tangentially elongated chlorenchymatous cells, cortical cells situated towards inner side, polygonal in shape and filled with plenty

of starch grains, simple, ovoid, or irregularly ovoid-elliptical, occasionally compound of 2-4 components, several secretory cells, found scattered in the cortex, pericyclic fibres lignified with wide lumen and pointed ends, associated with a large number of crystal fibres containing a single prism in each chamber, vascular zone composed of 10-12 or more wedge-shaped strips of xylem, externally surrounded by semi-circular strips of phloem, alternating, with wide medullary rays, phloem consists of sieve tube, companion cells and phloem parenchyma of polygonal or tangentially elongated cells, some of them contain crystals of calcium oxalate, cambium composed of one to two layers of tangentially elongated cells in each vascular bundle, xylem consists of vessels, tracheids, parenchyma and fibres, in primary xylem, vessels comparatively narrow devoid of tyloses, secondary xylem elements thick-walled, lignified, vessels cylindrical in shape bearing bordered pits on their walls some large vessels possess several tyloses and often contain transverse septa, medullary rays 15-20 or more cells wide containing rounded, hemispherical, oblong, ovoid, with faintly marked concentric striations and central hilum appearing like a point, starch grains of 5.5-11.20 μ in diameter and 6-11.28 μ in length, pith composed of large, thin-walled cells mostly containing starch grains.

IDENTITY, PURITY AND STRENGTH

For dried drug -

Foreign matter	Not more than	2	per cent, Appendix	2.2.2.
Total ash	Not more than	16	per cent, Appendix	2.2.3.
Acid-insoluble ash	Not more than	3	per cent, Appendix	2.2.4.
Alcohol-soluble extractive	Not less than	3	per cent, Appendix	2.2.6.
Water-soluble extractive	Not less than	11	per cent, Appendix	2.2.7

For fresh drug

Foreign matter	Nil	Appendix	2.2.2.
Moisture content	75	per cent, Appendix	2.2.9.

CONSTITUENTS - Terpenoids and alkaloids.

PROPERTIES AND ACTION

Rasa	:	Tikta, Kaṣāya
Guna	:	Laghu
Virya	:	Uṣṇa
Vipaka	:	Madhura
Karma	:	Balya, Dīpana, Rasāyana, Saṅgrāhī, Tridoṣaśāma, Raktaśodhaka, Jvaraghna

IMPORTANT FORMULATIONS - Amṛtāriṣa, Amṛtottara Kvātha Cūrṇa, Guḍūcī Taila, Guḍūcyādi Cūrṇa, Guḍūcī Sattva, Chinnobhavādi Kvātha Cūrṇa

THERAPEUTIC USES - Jvara, Kuṣṭha, Pāṇḍu, Prameha, Vātarakta, Kāmalā

DOSE - 3-6 g of the drug in powder form.
20-30 g of the drug for decoction.