

Baliospermum solanifolium(Willd.) Muell-Arg.

Synonyms : *B. axillare* Bl. , *B. polyandrum* Wt.

Family : Euphorbiaceae

Parts Used : Root , Leaf, Seed

Vernacular Names

English : Castor oil plant

Malayalam : Nagadanti

Hindi : Danti

Sanskrit : Danti

Assamese : Dant, Hakun

Bengali : Danti

Gujarathi : Dantimul, Jamalgota

Kannada : Danti

Tamil : Nakatanti

Telugu : Adaviamudamu, Kondaamudamu



Distribution and habitat: Found throughout the sub-Himalayan tracts from Kashmir to Khasi Hills. It is common in West Bengal, Bihar and Central and Peninsular India.

Botany: Erect subherbaceous leafy shrub, 1-2 m high;

• **Leaves:** Alternate simple, petioles stout , stipules glandular, lower ones 15-30 cm long while upper ones 5.0-7.5 cm in length, biglandular at base, rigid, ribs prominent;

• **Inflorescence:** Racemes 0.4 cm, may contain only male flowers or a few female flowers too; florets small, subsessile;

• **Fruit:** Capsules trilobed, 0.8 -1.25 cm long ; seeds mottled and endosperm oily.

Chemical constituents: Roots contain diterpenes, baliospermin, montanin, phorbol-12-deoxy-13-O-palmitate, phorbol-12-deoxy-16-hydroxy-13-O-palmitate and phorbol-12-deoxy-5b-hydroxy-13 -myristate .

Uses: Root is used in abdominal pain, constipation, calculus, general anasarca, piles, helminthic manifestations, scabies, skin disorders, suppurative ulcers and diseases caused by the morbidity of *kapha* and *pitta*. Root paste is applied to painful swellings and piles. Leaves cure asthma and seeds are used in snakebite.

Formulations: *Dantyarista*, *Dantyadi churna*, *Dantiharitakileham*, *Kaisoraguggulu gulika* etc.

Agrotechnology

Propagation: Stem cuttings. Spacing of 3 m between mounds with 2 rooted cuttings per mound

Harvesting: Roots can be collected at the end of second year. The roots are to be cut and dried in sun before marketing. The yield is about one tonne root/ha.

