

GUACATONGA CAPSULES



100 capsules (600 mg each)

Retail price: \$18.95

Some of the active ingredients documented, researched, and verified in guacatonga are a group of clerodane diterpenes. These phytochemicals are being researched and patented for their active biological properties and potential uses.* For more complete information on this unique rainforest plant, please see the Raintree Nutrition internet website and the online [Tropical Plant Database](#).

Traditional Uses:* for cancer (sarcoma, carcinoma, and adenocarcinoma); for stomach disorders (ulcers, acid reflux, indigestion, dyspepsia, stomachache); as an antivenin for snake, spider and bee bites and stings; as a topical analgesic (pain-reliever) and anti-inflammatory for skin diseases, rashes and wounds; as a blood purifier and for general detoxification

Ingredients: 100% pure guacatonga (*Casearia sylvestris*) leaf & stem. No binders, fillers or additives are used.

Suggested Use: Take 3 capsules 2-3 times daily.

Contraindications: Not to be used during pregnancy or while breast-feeding.

Drug Interactions: None reported.

Other Observations: None reported.

Clinical Documentation and Research:* This Raintree product has not been the subject of any clinical research. Available third-party documentation and clinical research on guacatonga can be found at the Raintree website or on [PubMed](#). A partial listing of the published research on guacatonga is shown below:

Cytotoxic & Anticancerous Actions:

- Balunas, M. J., et al. "Relationships between inhibitory activity against a cancer cell line panel, profiles of plants collected, and compound classes isolated in an anticancer drug discovery project." *Chem. Biodivers.* 2006; 3(8): 897-915.
- Shen, Y. C., et al. "Cytotoxic clerodane diterpenoids from *Casearia membranacea*." *J. Nat. Prod.* 2005; 68(11): 1665-8.
- Maistro, E. L., et al. "Evaluation of the genotoxic potential of the *Casearia sylvestris* extract on HTC and V79 cells by the comet assay." *Toxicol. In Vitro.* 2004 Jun; 18(3): 337-42.
- Oberlies, N. H., et al. "Novel bioactive clerodane diterpenoids from the leaves and twigs of *Casearia sylvestris*." *J. Nat. Prod.* 2002; 65(2): 95-99.
- Sai Prakash, C. V., et al. "Structure and stereochemistry of new cytotoxic clerodane diterpenoids from the bark of *Casearia lucida* from the Madagascar rainforest." *J. Nat. Prod.* 2002; 65(2): 100-7.
- Beutler, J. A. "Novel cytotoxic diterpenes from *Casearia arborea*." *J. Nat. Prod.* 2000; 63(5): 657-61.
- Almeida, A. "Antitumor and anti-inflammatory effects of extract from *Casearia sylvestris*: comparative study with Piroxicam and Meloxicam." Instituto de Ciencias Biomedicas, University of Sao Paulo (Dissertation, 4/02/99).
- Itokawa, H., et al. "Antitumor substances from South American plants." *J. Pharmacobio. Dyn.* 1992; 15(1): S-2-.
- Morita, H., et al. "Structures and cytotoxic activity relationship of casearins, new clerodane diterpenes from *Casearia sylvestris* Sw." *Chem. Pharm. Bull.* (Tokyo) 1991 Dec; 39(3): 693-97.
- Itokawa, H., et al. "New antitumor principles, casearins A-F, for *Casearia sylvestris* Sw. (Flacourtiaceae)." *Chem. Pharm. Bull.* (Tokyo) 1990; 38(12): 3384-88.
- Itokawa, H., et al. "Isolation of diterpenes as antitumor agents from plants." Patent—Japan Kokai Tokyo Koho-01 1989; 149, 779: 6pp.
- Itokawa, H., et al. "Antitumor principles from *Casearia sylvestris* Sw. (Flacourtiaceae), structure elucidation of new clerodane diterpenes by 2-D NMR spectroscopy." *Chem. Pharm. Bull.* (Tokyo) 1988 March; 36(4): 1585-88.

Antiulcerous Actions:

- Esteves, I., et al. "Gastric antiulcer and anti-inflammatory activities of the essential oil from *Casearia sylvestris* Sw." *J. Ethnopharmacol.* 2005 Oct; 101(1-3): 191-6.
- Sertie, J. A., et al. "Antiulcer activity of the crude extract from the leaves of *Casearia slyvestris*." *Pharmaceutical Biol.* 2000; 38(2): 112-19.
- Basile, A. C., et al. "Pharmacological assay of *Casearia sylvestris*. I: Preventive anti-ulcer activity and toxicity of the leaf crude extract." *J. Ethnopharmacol.* 1990; 30(2): 185-97.

Neuroprotective Actions:

da Silva, A. C., et al. "Inhibition of NTPDase, 5'-nucleotidase, Na⁺/K⁺-ATPase and acetylcholinesterase activities by subchronic treatment with *Casearia sylvestris*." *Phytomedicine*. 2006; 13(7): 509-14.

Antivenin Actions:

Raslan, D.S., et al. "Anti-PLA2 action test of *Casearia sylvestris* Sw." *Boll. Chim. Farm.* 2002 Nov-Dec; 141(6): 457-60.

Borges, M., et al. "Neutralization of proteases from *Bothrops* snake venoms by the aqueous extract from *Casearia sylvestris* (Flacourtiaceae)." *Toxicon* 2001; 39(12): 1863–69.

Borges, M., et al. "Effects of aqueous extract of *Casearia sylvestris* (Flacourtiaceae) on actions of snake and bee venoms and on activity of phospholipases A(2)." *Comp. Biochem. Physiol. B*. 2000 Sep 1; 127(1): 21–30.

Borges, M., et al. "Partial purification of *Casearia sylvestris* Sa. extract and its anti-PLA2 Action." *Comp. Biochem. Physiol. Ser. B*. 2000; 127b(1): 21–30.

Ruppelt, B. M., et al. "Pharmacological screening of plants recommended by folk medicine as antsnake venom—I. Analgesic and anti-inflammatory activities." *Mem. Inst. Oswaldo Cruz* 1991; 86: 203–05.

Anti-inflammatory and Pain-Relieving Actions:

Silva, F.B., et al. "Natural medicaments in endodontics—a comparative study of the anti-inflammatory action." *Pesqui. Odontol. Bras.* 2004 Apr-Jun; 18(2): 174-9.

Almeida, A. "Antitumor and anti-inflammatory effects of extract from *Casearia sylvestris*: comparative study with Piroxicam and Meloxicam." Instituto de Ciencias Biomedicas, University of Sao Paulo (Dissertation, 4/02/99).

Antimicrobial, Antiparasitic, & Insecticidal Actions:

de Mesquita, M. L., et al. "In vitro antiplasmodial activity of Brazilian Cerrado plants used as traditional remedies." *J. Ethnopharmacol.* 2007 Mar; 110(1): 165-70.

Rodrigues, A. M., et al. "Larvicidal activity of some Cerrado plant extracts against *Aedes aegypti*." *J. Am. Mosq. Control Assoc.* 2006 Jun; 22(2): 314-7.

Mesquita, M.L., et al. "Antileishmanial and trypanocidal activity of Brazilian Cerrado plants." *Mem. Inst. Oswaldo Cruz.* 2005 Nov; 100(7): 783-7.

Espindola, L. S., et al. "Trypanocidal activity of a new diterpene from *Casearia sylvestris* var. *lingua*." *Planta Med.* 2004; 70(11): 1093-5.

de Almeida Alves, T. M. "Biological screening of Brazilian medicinal plants." *Mem. Inst. Oswaldo Cruz.* 2000 May/Jun; 95(3): 367–73.

Chiappeta, A. D., et al. "Higher plants with biological activity—plants of Pernambuco. I." *Rev. Inst. Antibiot.* 1983; 21(1/2): 43–50.

This product is sold through health practitioners, in retail stores and by [Raintree Nutrition](#). Please contact a health professional concerning other observations and/or effects of this product and/or if you have any disease, condition, or illness for which you are seeking treatment or products for.

Manufactured By:
Raintree Nutrition, Inc.
3579 Hwy 50 East, Suite 222
Carson City, NV 89701
(800) 780-5902 (775)841-4142
www.RaintreeNutrition.com



* The statements contained herein have not been evaluated by the Food and Drug Administration.
This product is not intended to treat, cure, or prevent any disease.