



# CHUCHUHUASI EXTRACT

2 ounces (60 ml)

Retail price: \$21.95

Indigenous people of the Amazon rainforest have been using the bark of chuchuhuasi medicinally for centuries; its name means "trembling back" which describes its long history of use for back pain.\* This rainforest tree goes by several botanical names including *Maytenus krukovii*, *M. ebenifolia*, *M. laevis*, *M. chuchuhuasca* and *M. macrocarpa*. Raintree Nutrition's Chuchuhuasi Concentrated Extract uses new and proprietary extraction methods to concentrate and preserve the active ingredients found in this amazing rainforest plant. It is rich in active and beneficial phytochemicals which occur naturally in this plant. The extraction methods used provides the equivalent of approximately 500 mgs of chuchuhuasi bark per milliliter of extract—resulting in a highly potent concentrated extract. For more complete information on this unique rainforest plant, please see the Raintree Nutrition internet website and the online [Tropical Plant Database](#).

**Traditional Uses:**\* as a pain-reliever, muscle relaxant, and an anti-inflammatory for arthritis, rheumatism, and back pain; as an aphrodisiac for loss of libido (male and female); to cool and balance adrenal function; to tone, balance, and strengthen female hormonal systems and for menstrual disorders, libido loss, menstrual pain and cramps; as a general tonic (tones, balances, strengthens overall body functions) and mild immune stimulant

**Ingredients:** 100% pure chuchuhuasi bark (*Maytenus krukovii*) extracted in distilled water and 40% ethanol.

**Suggested Use:** Take 60 drops 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 chuchuhuasi can be found at the Raintree website and on [PubMed](#). A partial listing of the published research on chuchuhuasi is shown below:

## Anti-inflammatory & Pain-Relieving Actions:

Honda, T., et al. "Partial synthesis of krukovines A and B, triterpene ketones isolated from the Brazilian medicinal plant *Maytenus krukovii*." *J. Nat. Prod.* 1997; 60(11): 1174-77.

Morita, H., et al. "Triterpenes from Brazilian medicinal plant "chuchuhuasi" (*Maytenus krukovii*)." *J. Nat. Prod.* 1996; 59(11): 1072-75.

Sekar K. V., et al. "Mayteine and 6-benzoyl-6-deacetyl-mayteine from *Maytenus krukovii*." *Planta Med.* 1995; 61: 390.

Bradshaw, D., et al. "Therapeutic potential of protein kinase C inhibitors." *Agents and Actions* 1993; 38: 135-47.

Itokawa, H., et al. "Isolation, structural elucidation and conformational analysis of sesquiterpene pyridine alkaloids from *Maytenus ebenifolia* Reiss. X-ray molecular structure of ebenifoline W-1." *J. Chem. Soc. Perkin. Trans. I* 1993; 11: 1247-54.

Itokawa, H., et al. "Oligo-nicotinated sesquiterpene polyesters from *Maytenus ilicifolia*." *J. Nat. Prod.* 1993; 56: 1479-85.

Gonzalez, J. G., et al. "Chuchuhuasha—a drug used in folk medicine in the Amazonian and Andean areas. A chemical study of *Maytenus laevis*." *J. Ethnopharm.* 1982; 5: 73–7.

Moya, S., et al. "Phytochemical and pharmacological studies on the antiarthritics of plant origin." *Rev. Colomb. Cienc. Quim. Farm.* 1977; 3(2): 5.

## Antioxidant Actions:

Bruni, R., et al. "Antimutagenic, antioxidant and antimicrobial properties of *Maytenus krukovii* bark."

*Fitoterapia*. 2006 Dec; 77(7-8): 538-45.

#### **Immunostimulant Actions:**

Nakagawa, H., et al. "Chemical constituents from the Colombian medicinal plant *Maytenus laevis*." *J. Nat. Prod.* 2004; 67(11): 1919-24.

Moreira, R. R., et al. "Release of intermediate reactive hydrogen peroxide by macrophage cells activated by natural products." *Biol. Pharm. Bull.* 2001; 24(2): 201-4.

Flemming, K. "Increase of phagocytosis activity by *Maytenus laevis* leaves and Scholler-Tornesch lignine (Porlisan)." *Naturwissenschaften*. 1965 Jun; 52(12):3 46-7.

Dicarlo F. J., et al. "Protection of mice against gram-positive bacteria with *Maytenus laevis* and other RES stimulants." *Proc. Soc. Exp. Biol. Med.* 1964 May; 116:195-7.

DiCarlo, F. J., et al. "Reticuloendothelial system stimulants of botanical origin." *Journal of the Reticuloendothelial Society* 1964: 224-32.

#### **Antimicrobial Actions:**

Kloucek, P., et al. "Antimicrobial activity of some medicinal barks used in Peruvian Amazon." *J. Ethnopharmacol.* 2006 Nov 18;

Kloucek P, et al. "Antibacterial screening of some Peruvian medicinal plants used in Calleria District." *J. Ethnopharmacol.* 2005 Jun; 99(2): 309-12.

Perez-Victoria, et al. "New natural sesquiterpenes as modulators of daunomycin resistance in a multidrug-resistant *Leishmania tropica* line." *J. Med. Chem.* 1999; 42(1): 4388-93.

Sotanaphun, U., et al. "Antimicrobial activity and stability of tingenone derivatives." *Planta Med.* 1999 Jun; 65(5): 450-2.

Martinod, P., et al. "Isolation of tingenone and pristimerin from *Maytenus chuchuhuasha*." *Phytochemistry* 1976; 15: 562-63.

#### **Cytotoxic & Anti-tumorous Actions:**

Nakagawa, H., et al. "Chemical constituents from the Colombian medicinal plant *Maytenus laevis*." *J. Nat. Prod.* 2004; 67(11): 1919-24.

Shirota, O., et al. "Two cangorosin A type triterpene dimers from *Maytenus chuchuhuasca*." *Chem. Pharm. Bull* (Tokyo). 2004; 52(9): 1148-50.

Chavez, H., et al. "Macrocarpins A-D, new cytotoxic nor-triterpenes from *Maytenus macrocarpa*." *Bioorg. Med. Chem. Lett.* 2000; 10(8): 759-62.

Chavez, H., et al. "Sesquiterpene polyol esters from the leaves of *Maytenus macrocarpa*." *J. Nat. Prod.* 1999; 62(11): 1576-77.

Chavez, H., et al. "Friedelane triterpenoids from *Maytenus macrocarpa*." *J. Nat. Prod.* 1998; 61(1): 82-5.

Sekar, K. V., et al. "Mayteine and 6-benzoyl-6-deacetyl-mayteine from *Maytenus krukovii*." *Planta Med.* 1995 Aug; 61(4): 390.

Shirota, O., et al. "Cytotoxic aromatic triterpenes from *Maytenus ilicifolia* and *Maytenus chuchuhuasca*." *J. Nat. Prod.* 1994; 57(12): 1675-81.

This product is sold through health practitioners, retail stores, and [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:**

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\* 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.