

N-TENSE TOPICAL

2 ounces (60 ml)

Retail Price: \$23.00



A powerful formula of rainforest botanicals which are used by the herbal healers in South America in a concentrated liquid extract for topical use on the skin.* This is similar to our popular N-Tense capsules which are taken internally. For more complete information on these unique rainforest plant ingredients, please see the Raintree Nutrition internet website and the online [Tropical Plant Database](#).

Ingredients: A proprietary blend of sangre de grado, copaiba, graviola, espinheira santa, suma, bellaco caspi, huacapu, pau d'arco, mullaca, vassourinha, and mutamba extracted in distilled water and alcohol.

Suggested Use: Shake well and apply liberally on the skin several times daily. Allow to dry completely before covering with clothing.

Clinical Documentation and Research:* This Raintree product has not been the subject of any clinical research. Available third-party documentation and clinical research on each ingredient in this formula can be found at the Raintree website. A partial listing of published research on these ingredients is shown below:

[Sangre de Grado \(Croton lechleri\)](#)

- Rossi, D., et al. "Evaluation of the mutagenic, antimutagenic and antiproliferative potential of *Croton lechleri* (Muell. Arg.) latex." *Phytomedicine*. 2003 Mar; 10(2-3): 139-44.
- Sandoval, M., et al. "Sangre de grado (*Croton palanostigma*) induces apoptosis in human gastrointestinal cancer cells." *J. Ethnopharmacol.* 2002; 80(2-3): 121-9.
- Chen, Z. P., et al. "Studies on the anti-tumour, anti-bacterial, and wound-healing properties of dragon's blood." *Planta Med.* 1994; 60(6): 541-45.
- Pieters, L., et al. "Isolation of a dihydrobenzofuran lignan from South American dragon's blood (*Croton sp.*) as an inhibitor of cell proliferation." *J. Nat. Prod.* 1993; 56(6): 899-906.
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[Copaiba Resin \(Copaifera sp.\)](#)

- Cavalcanti, B. C., et al. "Genotoxicity evaluation of kaurenoic acid, a bioactive diterpenoid present in Copaiba oil." *Food Chem. Toxicol.* 2006; 44(3): 388-92.
- Krauchenco, S., et al. "Three-dimensional structure of an unusual Kunitz (STI) type trypsin inhibitor from *Copaifera langsdorffii*." *Biochimie*. 2004; 86(3): 167-72.
- Lima, S. R., et al. "In vivo and in vitro studies on the anticancer activity of *Copaifera multijuga* Hayne and its fractions." *Phytother. Res.* 2003 Nov; 17(9): 1048-53.
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[Graviola \(Annona muricata\)](#)

- Kojima, N. "Systematic synthesis of antitumor Annonaceous acetogenins" *Yakugaku Zasshi*. 2004; 124(10): 673-81.
- Tormo, J. R., et al. "In vitro antitumor structure-activity relationships of threo/trans/threo mono-tetrahydro-furanic acetogenins: Correlations with their inhibition of mitochondrial complex I." *Oncol. Res.* 2003; 14(3): 147-54.
- Yuan, S. S., et al. "Annonacin, a mono-tetrahydrofuran acetogenin, arrests cancer cells at the G1 phase and causes cytotoxicity in a Bax- and caspase-3-related pathway." *Life Sci.* 2003 May; 72(25): 2853-61.
- Liaw, C. C., et al. "New cytotoxic monotetrahydrofuran Annonaceous acetogenins from *Annona muricata*." *J. Nat. Prod.* 2002; 65(4): 470-75.
- Gonzalez-Coloma, A., et al. "Selective action of acetogenin mitochondrial complex I inhibitors." *Z. Naturforsch.* 2002; 57(11-12): 1028-34.
- Chang, F. R., et al. "Novel cytotoxic Annonaceous acetogenins from *Annona muricata*." *J. Nat. Prod.* 2001; 64(7): 925-31.
- Jaramillo, M. C., et al. "Cytotoxicity and antileishmanial activity of *Annona muricata* pericarp." *Fitoterapia*. 2000; 71 (2): 183-6.
- Betancur-Galvis, L., et al. "Antitumor and antiviral activity of Colombian medicinal plant extracts." *Mem. Inst. Oswaldo Cruz*.

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Espinheira Santa (*Maytenus ilicifolia*)

Liu, Z., et al. "Metabolism studies of the anti-tumor agent maytansine and its analog ansamitocin P-3 using liquid chromatography/tandem mass spectrometry." *J. Mass. Spectrom.* 2005; 40(3): 389-99.

Nakao, H., et al. "Cytotoxic activity of maytanprine isolated from *Maytenus diversifolia* in human leukemia K562 cells." *Biol. Pharm. Bull.* 2004; 27(8): 1236-40.

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Bellaco-caspi (*Himatanthus sukuuba*)

Guignard, E., et al. "Screening of plants found in Amazonas state for lethality towards brine shrimp." *Acta Amazonica.* 2003; 33(1): 93-104.

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Huacapu (*Minquartia guianensis*)

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Mullaca (*Physalis angulata*)

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Vassourinha (*Scoparia dulcis*)

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Mutamba (Guazuma ulmifolia)

Seigler, D.S. "Cyanogenic glycosides and menisdaurin from *Guazuma ulmifolia*, *Ostrya virginiana*, *Tiquilia plicata* and *Tiquilia canescens*." *Phytochemistry*. 2005 Jul; 66(13): 1567-80.

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