

Banderol™

Applications

- Microbial Support
- Healthy Inflammatory Response Support



Introduction

NutraMedix Banderol™ is a hydro-ethanol extract made from **otoba bark** (*Otoba parvifolia*). The otoba tree belongs to the Myristicaceae family and is also known as banderilla.¹ It is sustainably harvested from the Amazon basin ecosystem and has been used by indigenous groups in the region for hundreds of years. Traditionally, otoba bark has been used for microbial support.² The proprietary hydro-ethanolic extraction and enhancement process maximizes the bioavailability of isoflavones and other beneficial constituents.³

NutraMedix Banderol is made at our U.S. manufacturing facility using a specialized proprietary extraction process that optimizes the constituents of the herb in its original, unprocessed state to obtain broad-spectrum concentration. Because our extracts are made in our own facility, we control all aspects of quality, including stringent ID testing, microbial testing, and heavy metal testing. NutraMedix rigorously follows current good manufacturing practices (cGMP), as do our suppliers.

Microbial Support

Otoba bark (*O. parvifolia*) may help with diverse microbial support for various types and morphological forms.⁴⁻⁶ Banderol from otoba bark (*O. parvifolia*) may be combined with Samento® from cat's claw bark (*U. tomentosa*) for

synergistic microbial support.⁷ Independently, both otoba bark and cat's claw bark assist with microbial support.⁷ In combination, they exhibit synergistic support.⁷

Healthy Inflammatory Response Support

Otoba bark (*O. parvifolia*) may help support a healthy inflammatory response.⁷ NutraMedix Banderol has been studied in mice, in which its inflammatory response support was found comparable to the positive control.⁸

Safety and Cautions

Otoba bark (*O. parvifolia*) is generally well tolerated. A mouse study using 500 times the human dosage of NutraMedix Banderol showed no evidence of side effects or toxicity.⁹ Otoba bark inhibits the uptake transporters OATP1B1 and OATP1B3,² so caution is warranted with medications that are substrates or inhibitors of OATP1B1 and OATP1B3.¹⁰

Safety is not documented in breastfeeding or pregnant women, or in children under age 3, due to insufficient safety research.

*This statement has not been evaluated by the Food and Drug Administration. This product is not intended to treat, cure, or prevent any diseases.

References

¹Jaramillo-Vivanco, T. & Balslev, H. (2020). *Phytotaxa*, 441(12), 143-175.

²Weiss J. (2018). *Molecules*, 24(1), 137.

³Valderrama J. C. (2000). *Phytochemistry*, 55(6), 505-511.

⁴Goc, A., & Rath, M. (2016). *Therapeutic Advances in Infectious Disease*, 3(3-4), 75-82.

⁵Weniger, B., Robledo, et al. (2001). *Journal of Ethnopharmacology*, 78(2-3), 193-200.

⁶Rocha, L.G., Almeida, J.R., et al. (2005). *Phytomedicine*, 12(6-7), 514-535.

⁷Datar, A., Kaur, N., et al. (2010) *Townsend Letter*, 7, 1-4.

⁸Allende, A. (2005). Establishment of the potential anti-inflammatory effect of the product known as Banderol, originating from NutraMedix Laboratories, LLC.

⁹Allende, A. (2006). Study of the acute oral toxicity of Banderol, originating from NutraMedix Laboratories, LLC, Florida, USA.

¹⁰Shitara Y. (2011). *Drug Metabolism and Pharmacokinetics*, 26(3), 220-227.

NutraMedix

SHAKE WELL BEFORE EACH USE:
Put 1 to 30 drops in 4 oz (120 mL) of water and wait one minute before drinking. Start with 1 drop (30 min. before meals) increasing slowly up to 30 drops 2-4 times per day or as directed by your physician. Do not use if pregnant or nursing. Stop use if adverse reactions develop. Keep out of reach of children.

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BANDEROL™

MICROBIAL SUPPORT †

Dietary Supplement

1 fl oz. (30mL)

Supplement Facts

Serving Size 30 drops
Servings Per Container 20

Amount Per Serving	
<i>Otoba parvifolia</i> bark extract	1.5 mL*

*Daily Value not established

Other ingredients: mineral water, ethanol (20-24%)

NutraMedix

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Lot #
Exp.

V364450