

BIO[✓]TURM™

- **Ideal alternative for Conventional Curcumin + Piperine**
- **Holistic, Cost Effective, Better Bioavailability**



Holistic, Better than Reductionist !

Why BioTurm™ ?

Standard Practice is to use 95% Curcumin with 1% of purified Piperine for enhanced bioavailability as Curcumin has poor absorption.

Say goodbye to Piperine! - BioTurm™ simplifies *Curcuma longa* intake. No Piperine is needed, offering an affordable and a much bioavailable option.

Breakthrough Bioavailability & Holistic Harmony - Our unique blend, containing 45% Curcuminoids and 4.5% ar-Turmerones, ensures a synergistic approach for optimal effectiveness, offering the goodness of the whole herb.

Applications



Dietary Supplements
Tablets/Capsules



Functional Foods

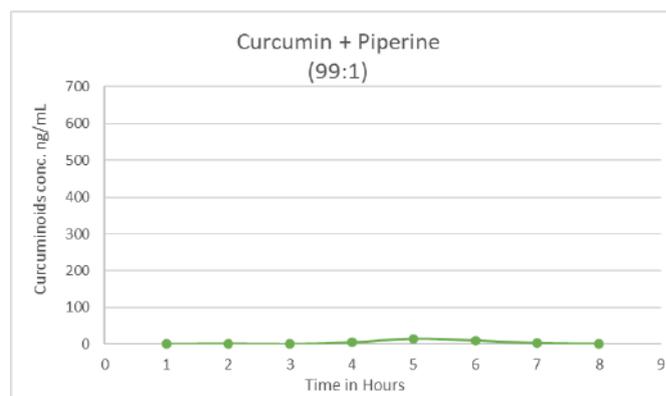
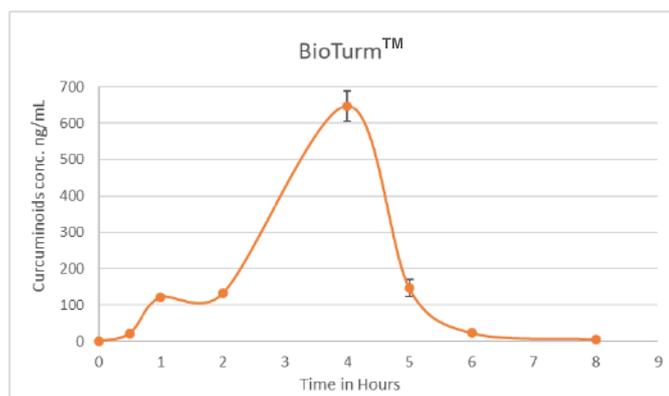


Sports/ Performance
Products



Clinical study to compare relative bioavailability

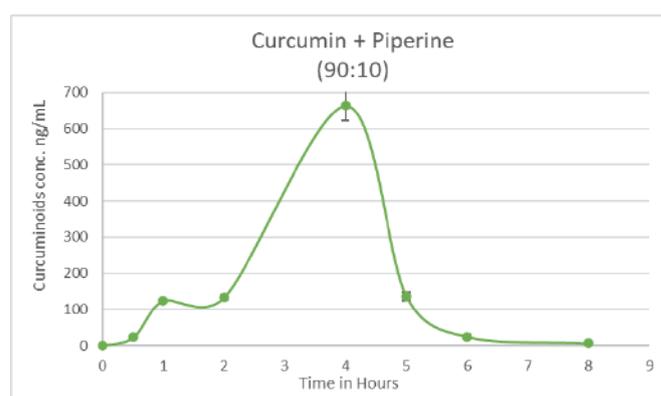
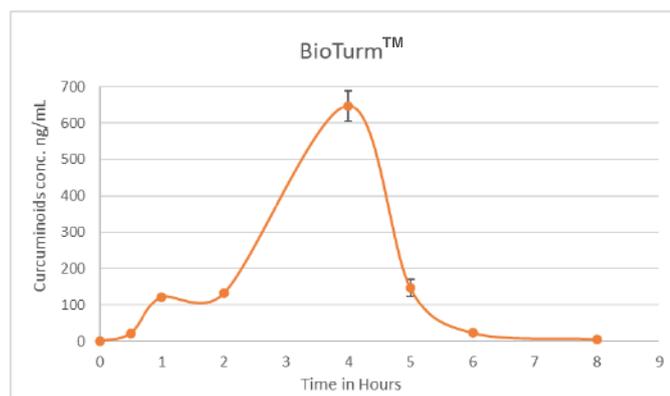
- A single oral dose, open-label, randomized, comparative, three arm human clinical study was conducted to determine comparative bioavailability of Nisarga's BioTurm vs market leading blend of *Curcuma longa* extract (Curcuminoids 95%) and 1% purified Piperine.
- The results are as below:



Plasma concentration vs Time profile curve (0 – 8 hrs) of Curcuminoids in patients who were given BioTurm™ vs patients given market leading Curcuma extract (Curcuminoids 95%) with Piperine (Piperine 95%), Blended in 99:1 ratio)



BioTurm™ extract (Standardized to 45% Curcuminoids and 4.5% ar-turmerones) showed **64 times higher bio-availability** to the comparator group, (Extract containing combination of 99% of 95% Curcuminoids with 1% of 95% Piperine) as observed in human plasma concentrations.



Plasma concentration vs Time profile curve (0 – 8 hrs) of Curcuminoids in patients who were given BioTurm™ vs patients given market leading Curcuma extract (Curcuminoids 95%) with Piperine (Piperine 95%), Blended in 90:10 ratio)



The addition of 10% purified Piperine to 95% Curcumin yielded bioavailability on par with BioTurm (standardized to 45% curcuminoids and 4.5% ar-turmerones) in human plasma concentrations.

Takeaways



The trial conclusively demonstrates the safety and efficacy of Nisarga's BioTurm™ extract in enhancing bioavailability.



The presence of 4.5% ar-turmerone in BioTurm™ significantly enhanced the bioavailability of curcuminoids (64 times), even at 45%, compared to the market-leading standard combination of 95% Curcuminoids and 95% Piperine, in healthy individuals. This enhanced bioavailability in Curcuma, can be attributed to the presence of other synergistic compounds present in Turmeric.

Benefits -



- 👍 **SIMPLICITY** : Using a single extract simplifies Curcuma longa supplementation compared to a combination extract with an additional bioavailability enhancer.
- 👍 **HOLISTIC NATURE** : Holistic nature of BioTurm™, constituting variety of phytonutrients, explains its enhanced bioavailability.
- 👍 **COST SAVINGS** : Nisarga's BioTurm™ will save you minimum 25% compared to market leading Curcumin and Piperine complex.
- 👍 **BENEFITS OF AR - TURMERONES** : The presence of ar-turmerones, with their anti-inflammatory, antimicrobial, antifungal, hepatic protection, and antitumor activities will act synergistically to enhance the health benefits of curcumin.

Specification

- Standardized to 45% Curcuminoids and 4.5% ar-Turmerones





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For product
information

