



Theracurmin[®] *super*

The First In Its Class

1 Plant-Based Ingredient • 85X More Bioavailable
Superior Efficacy & Safety • Multiple Applications
Amorphous Conversion Technology



Handok Healthcare

PROFESSIONAL REFERENCE

CURCUMIN

What Is Theracurmin Super®?

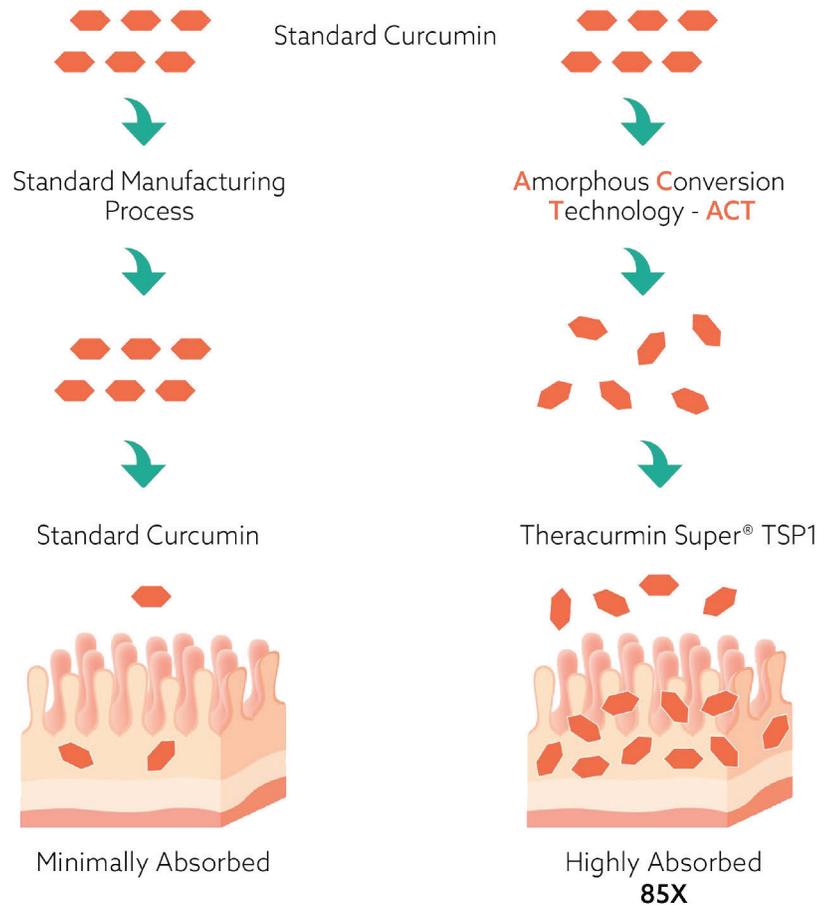
Curcumin, a natural polyphenolic compound derived from turmeric (*Curcuma longa L.*), is known to the scientific community to exhibit various health benefits. There have been many claims on the health benefits of curcumin on neurological, cardiovascular, lung, metabolic, and liver function. Despite its promising potential, the clinical application of curcumin has been limited due to its low bioavailability.

To enhance the oral absorption of curcumin, we developed Theracurmin Super® utilizing the latest Amorphous Conversion Technology (ACT).

DIFFERENT CRYSTALLINE STATES OF CURCUMIN

The crystal structure of standard curcumin is rigid, making the material difficult to absorb. ACT converts curcumin particles into an amorphous, or dispersed structure through a patented manufacturing process.

This allows for a higher bioavailability and for the body to harness the full benefits of curcumin.



Not All Curcumin Is Created Equal.

Theracurmin Super® is clinically proven to be over 85X more bioavailable than standard curcumin powder. The superior bioavailability of Theracurmin Super® indicates high efficacy in health areas standard curcumin could not be applied in. In one study, C_{max} was also reached quickly showing that Theracurmin Super® has a superior onset of action and acts quickly in the body.

Disclaimer statements:

These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease. This article contains information, graphics, and data not intended for use in any regulatory applications to secure permit, license, or health claims for any countries.

STUDY OUTLINE

- **STUDY DESIGN:**
A RANDOMIZED DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL-CLINICAL TRIAL.
- **SUBJECTS:**
71 HEALTHY ADULTS (AGE: 30 - 59)
- **INTAKE PERIOD:**
8 WEEKS
- **DOSE**
THERACURMIN SUPER 400MG/DAY (120MG AS CURCUMIN)

RESULTS

- DECREASED TOTAL OXIDANT STATUS IN RESTING STATE
- DECREASED OXIDATIVE STRESS INDEX IN BOTH RESTING STATE AND AT THE END OF EXERCISE

Theracurmin Super® For Oxidative Stress



— Antioxidant

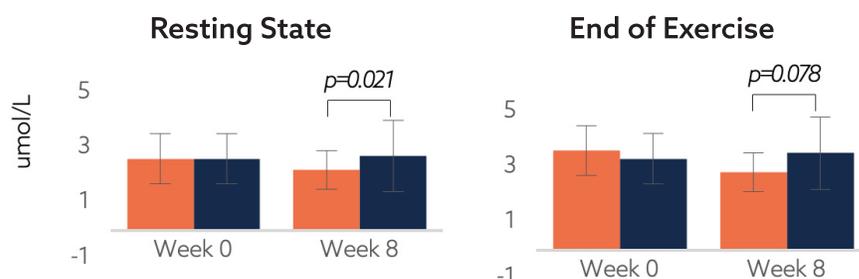
Decrease in Total Oxidative Stress and Oxidative Stress Index

Background: Given curcumin's antioxidant properties, this study aimed to determine the effectiveness and safety of Theracurmin Super® supplementation in mitigating exercise-induced oxidative stress in healthy adults.

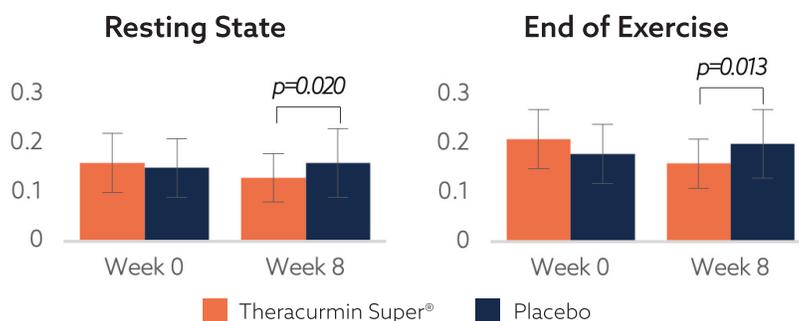
Results: In week 8, blood biomarkers linked to oxidative stress, including TBARs, MDA, 8-OHdG, SOD, TOS, and OSI, showed significant group- and week-related interactions (total oxidant status: resting state $P=0.021$; oxidative stress index, resting state $P=0.020$, end of exercise, $P=0.013$). Notably, the TG showed a significant decrease in total oxidant status (resting state $P=0.041$) and oxidative stress index (resting state $P=0.018$ and end of exercise $P=0.008$) between weeks 0 and 8. However, MDA and 8-OHdG levels did not show statistically significant changes.

Conclusion: Theracurmin Super® effectively reduced oxidative stress before and after exercise, highlighting curcumin's promising role in managing oxidative stress. Significant improvements in TOS and OSI were observed, although changes in MDA and 8-OHdG levels were not statistically significant. Further research could provide insights into these mixed results across different oxidative biomarkers.

Change of TOS during recovery



Change of OSI during recovery



Li X, Kim DY, Sung YH, et al. Effects of 8-week Theracurmin Super (TS-P1; Curcumin) supplementation on exercise-induced oxidative stress: A randomized, double-blind, placebo-controlled parallel clinical trial. *Integr. Med. Res.* 2025;14(3) doi: 10.1016/j.imr.2024.10109.

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85X

85.2 TIMES MORE BIOAVAILABLE
RELATIVE TO STANDARD CURCUMIN
POWDER.

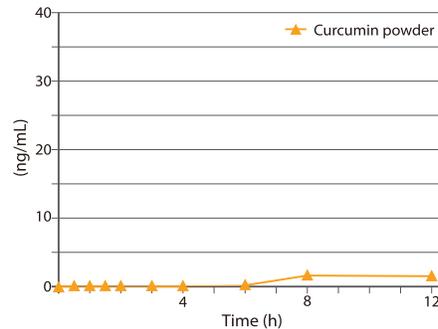
Superior Bioavailability Over Standard Curcumin Powder



— Bioavailability

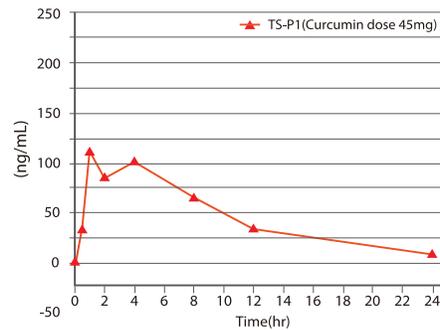
Two independent studies were performed showing the AUC of standard curcumin powder over a 12hr period and Theracurmin Super® (TS-P1) over a 24hr period. Independent analysis of the two studies showed that Theracurmin Super® is approximately 85.2 times more bioavailable relative to standard curcumin powder.

Change in mean plasma total curcumin concentration over time



Chung HW, et al. Int J Clin Pharmacol Ther. 2021 Oct; 59 (10): 684-690. Citation

Change in mean plasma total curcumin concentration over time



Hirose A, et al. Int J Clin Pharmacol Ther. (in press)

Clinically Proven For Upper Respiratory Health



— Respiratory health

As we transition into post pandemic era, people remain cautious of having coughs let alone uncontrollable sneezing. With that comes growing demand for a natural means of maintaining respiratory health.

According to the Journal of Dietary Supplements, Theracurmin Super® "is the first to obtain evidence using a randomized controlled trial to demonstrate curcumin's efficacy in [providing support against upper respiratory irritations] in healthy humans", showing beneficial effects on coughing, sneezing, runny nose, and stuffy nose with no reported side effects.

Kuwabara Y, et al. J Diet Suppl. 2023 Mar; (16): 1-28.

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Theracurmin Super® For Upper Respiratory Health



Study Outline	
Study design	Randomized, double-blind, placebo-controlled study
Subjects	Healthy subjects (Age:20~60)
Group composition and curcumin intake	1. Placebo (n=30) : As curcumin 0mg 2. TS-P1 (n=32): As curcumin 150 mg/ day 3. CR-033P (n=33): As curcumin 150 mg/ day
Period	12 weeks
Primary outcome	The cumulative number of days for which common upper respiratory symptoms persisted during the intervention period.



Sneezing: 57% less sneezing, reduction of days from 18.4 days to 7.9 days



Nasal Discharge: 60% less nasal discharge, reduction of days from 24.4 days to 9.8 days



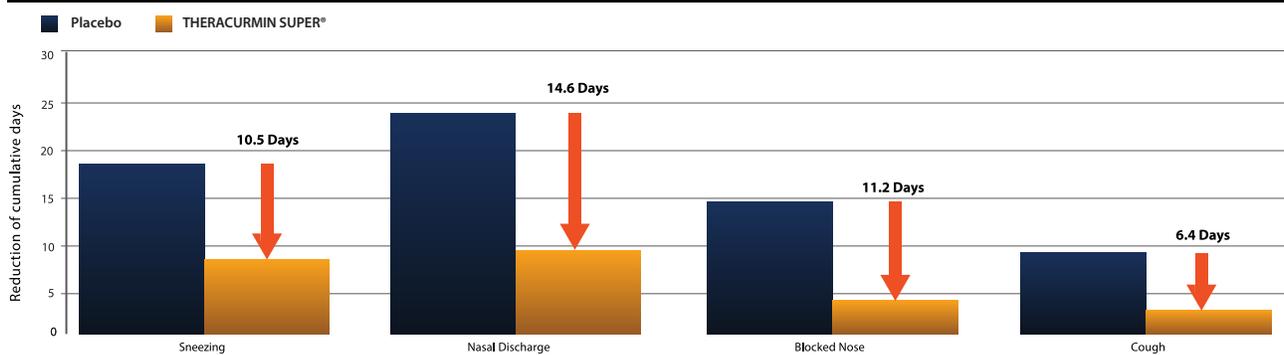
Blocked Nose: 79% less blocked nose, reduction of days from 14.2 days to 3.0 days



Cough: 71% less coughing, reduction of days from 9.0 days to 2.6 days

Cumulative Number of Expression Days with Symptoms

The Cumulative Number Of Expression Days



Only the group administered TS-P1 significantly decreased the cumulative days specific symptoms were expressed, such as "sneezing," "nasal discharge," "blocked nose" and "cough." Maximum duration of "nasal discharge" and "nasal obstruction" were also significantly reduced in the TS-P1 group.

Kuwabara Y, et al. J Diet Suppl. 2023 Mar; (16): 1-28.

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Clinical Studies On Safety



Theracurmin Super® is clinically proven to be safe. This is supported by several safety reports including toxicity evaluations studies.

Toxicity data				
Test	Ames Test	Micronucleus Assay Test	Comet Assay Study	Acute Toxicity Study
Test detail	Salmonella spp. (4 strains) E.Coli	Chromosome aberration test in bone marrow cells of male Sprague-Dawley rats	Male Sprague-Dawley rats bone marrow micronucleus assay	Female Sprague-Dawley rats Dose: 5000mg/kg (As curcumin 1500mg/kg) Once
Result	Negative	Negative	Negative	No toxicological findings observed through oral administration LD50 value of oral administration was 5000mg / kg or more (GHS Category 5/ Unclassified)

Clinical Study in Healthy Volunteers		
Test	4-week clinical study in healthy volunteers at excessive dosage	12-week clinical study in healthy volunteers at standard dosage
Test detail	Tested dosage: 750mg/q.d./p.o. (as curcumin, 5x of standard dosage) Period: 4weeks	Tested dosage: 150mg/q.d./p.o. (as curcumin standard dosage) Period: 12weeks.
Result	THERACURMIN SUPER® was proved safe in this study.	THERACURMIN SUPER® was proved safe in this study.

q.d.: Once a day / p.o.: Oral intake / ADI: Acceptable Daily Intake
*Standard dosage: 150mg/day (as curcumin)= ADI: 3mg/kg x 50kg (average adult body weight)

Applications

Theracurmin Super® is a plant-based solution that is clinically proven and versatile, being used in applications such as capsules, tablets, and gummies. The ingredient offers a wide opportunity in various categories including respiratory health, relief from upper respiratory symptoms, immunity support, antioxidant, overall health support and more.

Theracurmin Super® can work both as a stand-alone ingredient for upper respiratory symptoms or in combination with key categories in immunity, antioxidant and more to enhance the efficacy of existing products.



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Who Is Handok Healthcare?

Handok Healthcare: Bringing Nature's Solutions to Life Through Science

Handok Healthcare is a specialized company dedicated to the scientific research and development of superior naturally derived ingredients. We deliver health products with verified safety and efficacy, build on a foundation of rigorous quality managements systems and continuous R&D investment. We are committed to supporting our customers' healthier lifestyles.



OUR VALUES

- **COMMITMENT TO QUALITY**
THE HIGHEST LEVEL OF INGREDIENTS ARE USED TO MANUFACTURE OUR PRODUCTS IN JAPAN.
- **EVIDENCE ORIENTED**
WITH SCIENTIFIC EVIDENCE BEING THE FOUNDATION OF HANDOK HEALTHCARE, THE SAFETY AND EFFICACY OF OUR PRODUCTS ARE SUPPORTED BY RESEARCH.
- **INTEGRITY**
REGULATIONS ARE STRICTLY FOLLOWED IN OUR FACILITIES TO ENSURE TRANSPARENCY AND RELIABILITY.
- **ENVIRONMENTALLY CONSCIOUS**
ALL OUR INGREDIENTS ARE NATURALLY SOURCED AND PLANT BASED TO PROVIDE SUSTAINABLE PRODUCTS.

Mission And Vision

Handok Healthcare strives to help individuals around the world achieve their definition of an optimal life, promoting meaningful living for all people. We do so by providing quality products made from raw ingredients that have been used for centuries in natural medicine and healing practices.

We utilize cutting-edge Japanese technology to create health solutions that are backed by our evidence-oriented process.

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Explore our clinically supported product portfolio developed to empower healthy aging and vitality through evidence-based nutrition.

Handok Healthcare

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