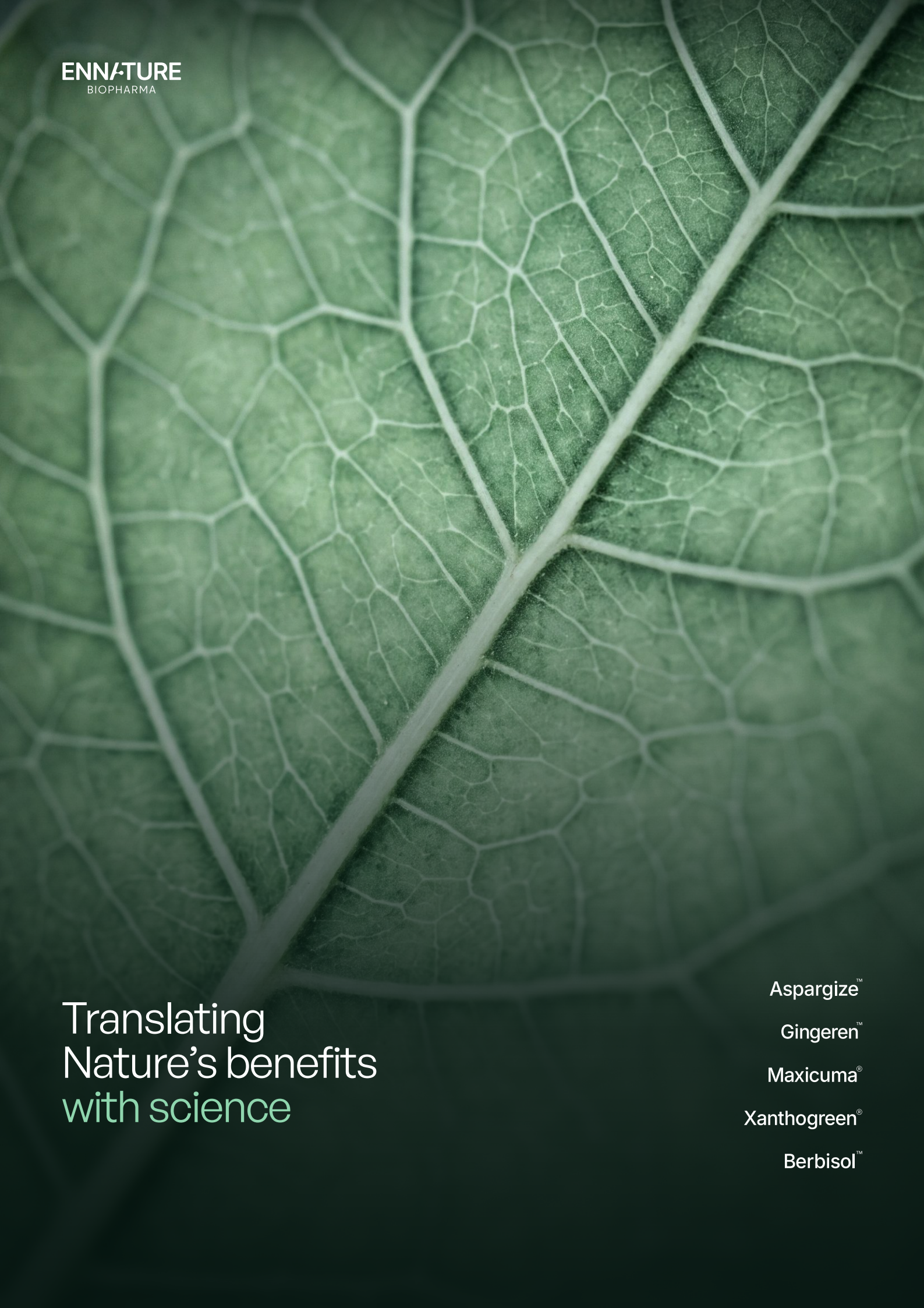




ENNATURE
BIOPHARMA

Translating
Nature's benefits
with science

Aspargize™

Gingeren™

Maxicuma®

Xanthogreen®

Berbisol™



WHO WE ARE

The value is not in the plant alone.

The value lies in understanding how it behaves, isolating what matters, defining its composition with precision, and reproducing it consistently. From the first study batch to commercial-scale supply.

Clinically studied

Human clinical research behind every branded ingredient.

BioRelay™ delivery

Proprietary platforms designed to unlock the full potential of each active.

Full chain of custody

R&D, pilot, scale-up and commercial production, all in house.

Made at source

Manufactured in India, with sustainability built into every step.

BioRelay™

01

True water solutions

Powered by LIMAN™

Improves the bioavailability of plant based lipophilic actives for better absorption.

USED IN

Maxicuma® **Berbisol™**

02

True oil solutions

Powered by SCEMOD™

Improves the dispersion of oil-soluble actives, helping the body absorb them better.

USED IN

Xanthogreen®

03

Sustained release

Encapsulates active ingredients with shorter half life in a sustained release matrix, allowing it to release gradually over time for longer benefit.

USED IN

Gingeren™

BRANDED ACTIVES

Built for better health.

Each one standardized, delivered with the technology it needs, and backed by human clinical studies.



Aspargize™

Fast acting shatavari

MENOPAUSAL SUPPORT



Gingeren™

Long acting ginger granules

MENSTRUAL COMFORT



Maxicuma®

Ultra low dose curcumin

JOINT HEALTH



Xanthogreen®

Fast acting lutein esters

EYE HEALTH



Berbisol™

Bioavailable berberine extract

METABOLIC HEALTH

Aspargize™

Fast acting
shatavari.

Clinically studied for menopausal support,
measurable from week two.

♀ WOMEN'S HEALTH 🧘 MOOD & STRESS 😴 SLEEP

COMPANION FOR EVERY LIFE STAGE

From the first hot flash to the last.



WHY ASPARGIZE

Traditional shatavari,
made to work in weeks.

01

Fast acting

Onset of menopausal support from week two in a gold-standard human clinical study.

02

Standardized

NLT 5% shatavarin IV and NLT 15% total shatavarins, tested by HPLC in every lot.

03

Broad-spectrum hydroalcoholic extract

Enriched with bioenhancers.

04

Root-only extract

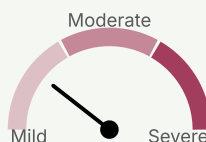
Extracted from the root alone, and traceable back to the field.

THE EVIDENCE

Seven outcomes. Measurable results.



Half the hot flashes.
By day 56



From moderate to mild.
Overall menopause symptoms



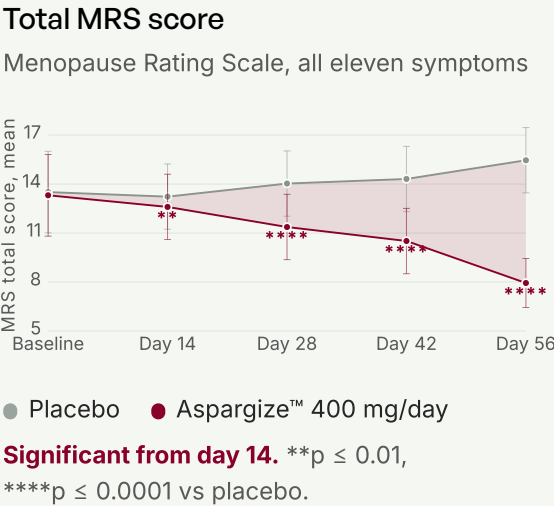
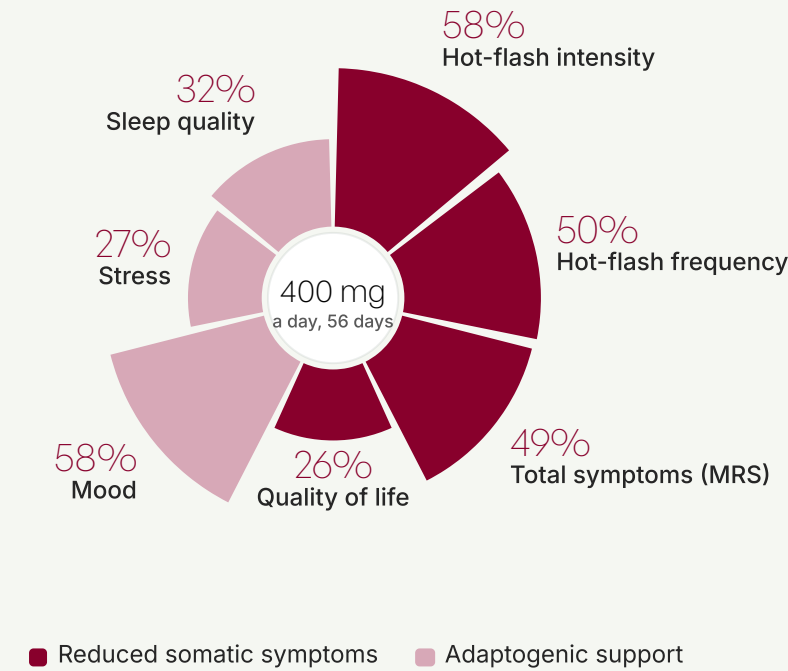
Mood, sleep and calm.
All better than placebo

CLINICAL STUDY · PUBLISHED

Fewer hot flashes, improved menopausal quality of life.

Better sleep, a steadier mood and reduced stress.

70 women · aged 45–55 · 400 mg/day · 56 days · vs placebo
Natural Resources for Human Health, 2026



KNOW YOUR INGREDIENT

Asparagus racemosus (shatavari root), praised in the Charaka Samhita and the Sushruta Samhita as a rejuvenating tonic for women, and known in Ayurveda as the queen of herbs.

SPECIFICATION

BOTANICAL	<i>Asparagus racemosus</i> , shatavari root
KEY ACTIVES	Shatavarin IV
STANDARDIZATION	NLT 5% shatavarin IV · NLT 15% total shatavarins · NLT 45% total saponins
DOSE STUDIED	400 mg/day



APPLICATION FORMATS

- Capsules
- Tablets
- Gummies
- Shots and beverages
- RTM powders
- Lozenges
- Bars

Building a menopause range that works in weeks?



GingerenTM

Long acting ginger granules.

♀ WOMEN'S HEALTH ♀ SEXUAL WELLNESS 🌀 DIGESTIVE HEALTH + IMMUNITY

Cycle 1

Onset of action

74%

Better working ability

NLT 20%

Gingerols

WHY GINGEREN

Why standard ginger falls short.

01

Fades fast

Gingerols have a short half-life and are metabolized fast, so the effect wears off within hours.

02

Tolerability

Its pungency limits how much one can consume.

About 3 in 4 suffer from primary dysmenorrhoea.

NSAIDs are commonly used to address the symptoms but often come with side effects. Women need natural options to tackle this month on month.

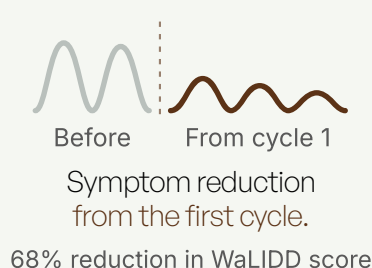
THE CYCLE YEARS

Supporting women through every month.



THE EVIDENCE

Comfort from the first cycle.



Work. Flow. Intimacy.
Feel more like yourself,
throughout the day.

CLINICAL STUDY · PUBLISHED

Menstrual comfort, more of her working day, comfortably.

Effective from the first cycle.

100 women · aged 20–30 · 200 mg/day · 3 cycles · vs placebo
Cureus, 2026 · Genetics and Molecular Research, 2026

MENSTRUAL COMFORT

Pain, its days and its intensity, and the biomarker behind it

Reduction in WaLIDD score		68%
Better working ability		74%
Fewer days of pain		64%
Reduction in menstrual blood flow		44%
Reduction in pain score (VAS)		34%
Less menstrual distress		57%
Lower PGF _{2α}		17%

SEXUAL WELLBEING

Function and quality of life

Better sexual function		51.6%
Better sexual quality of life		47%

GENERAL WELLNESS

Digestion and cold symptoms

Better digestive health		64%
Less gastric discomfort		56%
Reduction in cold symptoms		38%

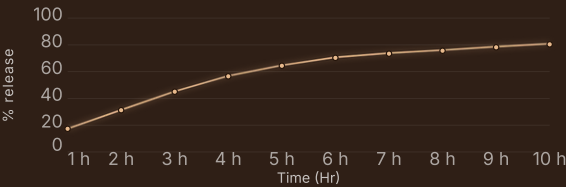
BioRelayTM SUSTAINED RELEASE Powered by Modified Release

Ginger through the day.

The actives are released gradually from an encapsulated matrix, instead of all at once. A lower dose, with a long-lasting effect.

Hourly release pattern

Cumulative release of total gingerols from GingerenTM



01 Sustained release

Around 80% of the gingerols are released by the tenth hour.

02 Well tolerated

Doses of up to 25 mg of gingerols are well tolerated, without gastric distress.

03 Long-lasting dose

GingerenTM lasts longer in the body than a standard ginger extract, so repeated dosing is not needed.



KNOW YOUR INGREDIENT

Zingiber officinale (ginger rhizome), used medicinally for 3,000 years and known for easing nausea, calming inflammation, aiding digestion and antioxidant support.

SPECIFICATION

BOTANICAL	<i>Zingiber officinale</i> , ginger rhizome
KEY ACTIVES	Gingerols
STANDARDIZATION	NLT 20% gingerols
DOSE	200 mg a day
APPLICATION FORMATS	Capsules



Building an all day menstrual comfort formula?

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Maxicuma®

Ultra low dose
curcumin.

Clinically studied for better joint health.

 JOINT HEALTH  SPORTS & ACTIVE

30 days

Onset of action

79%

Reduction in pain score

NLT 40%

Total curcuminoids

WHY MAXICUMA

Most curcumin never reaches the blood.

01

Poor absorption

Curcumin has poor aqueous solubility, which limits its absorption.

02

Unstable in the gut

Curcumin has limited stability in gastrointestinal conditions, and is rapidly metabolised.

03

Broken down fast

What is absorbed is quickly converted into inactive forms.

04

Numbers that mislead

Not all "curcumin" measurements represent free curcumin.

ULTRA LOW DOSE

Evolution of
curcumin dosage.

Maxicuma® delivers superior efficacy at an ultra low dose, cost-effectively.

Instant cold-water dispersible

Neutral taste

Standard extract

1st generation, adjuvants

2nd generation, phospholipids

3rd generation, synthetic bioenhancers

Maxicuma®

2,000 mg

1,500 mg

1,000 mg

250–500 mg

100–250 mg

STANDARD CURCUMIN

MAXICUMA®

Standard curcumin: >50% excreted unabsorbed, ~15% degraded, <1% reaches the blood as free curcumin

THE EVIDENCE

Higher uptake. Efficacy at an ultra low dose.



Day 30 onset.
Significant onset of action



79% reduction.
In pain and WOMAC scores



More than twice
the improvement.
In physical function

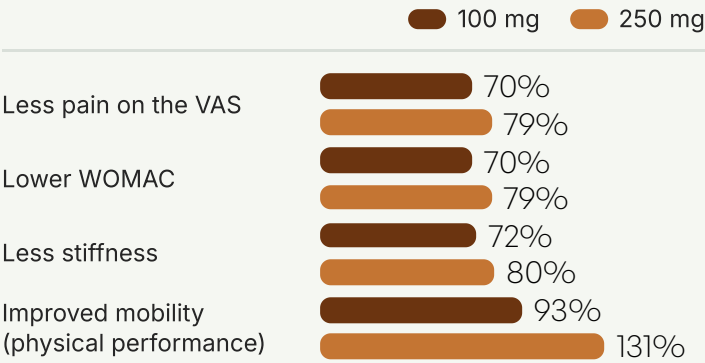
CLINICAL STUDY · PUBLISHED

More joint comfort, better physical function from day 30.

Further benefit by day 90 with regular Maxicuma®, at 100 and 250 mg a day.

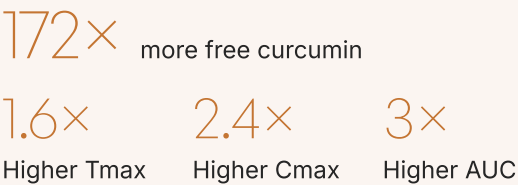
180 adults · 100 or 250 mg/day · 90 days · vs placebo
European Journal of Integrative Medicine, 2025

BY DAY 90 Change from baseline; p < 0.0001 vs placebo



PHARMACOKINETIC STUDY · PUBLISHED

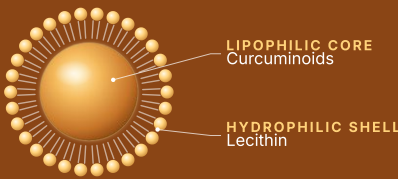
Higher uptake of curcuminoids.



14 adults · crossover · equal dose · vs micronized curcumin 95%
Current Research in Complementary & Alternative Medicine, 2023

BioRelay™ TRUE WATER SOLUTION Powered by LIMAN™

Made to survive the gastrointestinal tract.



01 Dispersibility

Lecithin-based microencapsulation improves aqueous dispersion.

02 Stability

Stable in the acidic gut environment, with less breakdown.

03 Absorption

Improved bioavailability: more free curcumin in systemic circulation, effective at a low dose.



KNOW YOUR INGREDIENT

Curcuma longa, trusted in Ayurveda for 4,000 years and known for liver, muscle, joint, immune and skin support.

SPECIFICATION

BOTANICAL	<i>Curcuma longa</i> , turmeric rhizome
KEY ACTIVES	Curcuminoids
STANDARDIZATION	NLT 40% curcuminoids
DOSE	100 mg or 250 mg, one a day
STATUS	Patented · Self-affirmed GRAS

APPLICATION FORMATS

- Capsules Tablets Gummies Shots and beverages RTM powders Lozenges
Mouth melts Bars



Let your flavour be the hero of your RTD.



Xanthogreen®

Fast acting lutein esters.

Clinically studied for faster
deposition of lutein on the macula.

👁 EYE HEALTH



WHY XANTHOGREEN

Free lutein takes months to deposit on the macula.

01

Solvent free

Extracted with a
patented supercritical
fluid extraction
(SCF-CO₂) process.

02

Stability

Lutein esters, naturally
present in marigold
flowers, are the most
stable form.

03

Grades

Xanthogreen® is
available in three
grades, each
clinically studied.

04

Fast onset

Macular pigment rose
significantly against
placebo from day 30.

THE APPROACH

Three grades for different formats.

Patented process for lutein extraction

Xanthogreen®

STANDARDIZATION:
LUTEIN ESTER 20%

DOSE

200 mg

Xanthogreen®
TOS

TRUE OIL
SOLUTION OF
LUTEIN ESTER 10%

DOSE

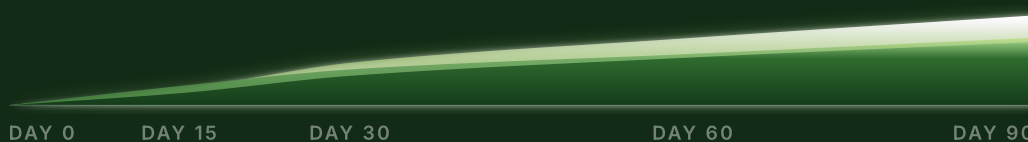
400 mg

Xanthogreen®
ULTRA

STANDARDIZATION:
LUTEIN ESTER 15%

DOSE

134 mg



XANTHOGREEN® TOS · +42.54%

XANTHOGREEN® · +31.96%

XANTHOGREEN® ULTRA · +29.88%

Macular pigment optical density, change from baseline. Significant from day 30 on all three grades; ULTRA at half the lutein dose.

THE EVIDENCE

Macular pigment optical density up from day 30.



42.54% more
macular pigment.

In 90 days, with
Xanthogreen® TOS



Working from day 30.



52.2% better
contrast sensitivity.

In 90 days, with
Xanthogreen® TOS

CLINICAL STUDY

128 adults · aged 18–50 · 3 grades · 90 days · vs placebo

Improved eye health starting day 30.

A rise in macular pigment optical density over 90 days.
In healthy adults, for all three grades of Xanthogreen®.

GRADE	DOSE	MACULAR PIGMENT OPTICAL DENSITY MPOD levels	CONTRAST SENSITIVITY Improvement from baseline at day 90
Xanthogreen® TOS True oil solution of lutein ester 10%	400 mg	42.54%	52.2%
Xanthogreen® Standardization: lutein ester 20%	200 mg	31.96%	52.4%
Xanthogreen® ULTRA Standardization: lutein ester 15%	134 mg	29.88%	48.9%

BioRelay™ TRUE OIL SOLUTION Powered by SCEMOD™

Disperses the lutein esters in a homogenous oil: stable, solvent-free, and broken into a nanoemulsion in the gut for better absorption.

- 01

A true oil solution

Breaks into a nanoemulsion in the gut, for better absorption.
- 02

The lymphatic route

Lutein esters are absorbed mainly through the lymphatic system, avoiding first-pass metabolism (degradation in the liver).
- 03

4 weeks

Measurable lutein reaches the retina.



KNOW YOUR INGREDIENT

Tagetes erecta, the marigold, whose petals are one of the richest sources of lutein, a naturally occurring carotenoid important for eye health and vision. Efficient delivery and absorption of lutein is the key.

SPECIFICATION

BOTANICAL	Tagetes erecta, marigold flower
KEY ACTIVES	Lutein esters
STANDARDIZATION	Xanthogreen®: lutein ester 20% · Xanthogreen® TOS: lutein ester 10% · Xanthogreen® ULTRA: lutein ester 15%
APPLICATION FORMATS	Softgels Capsules Gummies Xanthogreen® for capsules and softgels · Xanthogreen® TOS for softgels · Xanthogreen® ULTRA for softgels and gummies



Do you want to see eye health results quickly?



Berbisol™

Bioavailable berberine extract.

Berberine absorption made effective at a lower dose,
for a healthier metabolism.

 METABOLIC HEALTH

WHY BERBISOL

Standard berberine barely gets absorbed.

01

Poor absorption

Berberine's poor solubility and absorption in the gut mean less of it reaches systemic circulation.

02

First-pass metabolism

Extensive degradation in the liver before it reaches the bloodstream.

03

Rapid elimination

What little berberine is absorbed into the blood is quickly eliminated.

THE APPROACH

Improving
bioavailability,
reducing the dose.

Berbisol™

BIOAVAILABLE
BERBERINE EXTRACT

Berberine HCl

+

Natural bioenhancers

Berbisol™

ENRICHED WITH
PROBIOTICS

Plus

Berbisol™

+

Spore-forming probiotic

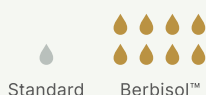


0 H 4 H 8 H 12 H 24 H 36 H 48 H

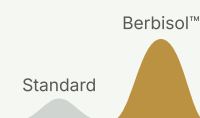
Higher free berberine concentration in plasma, single 300 mg dose; 8× the exposure (AUC) and 3× the peak (Cmax)

THE EVIDENCE

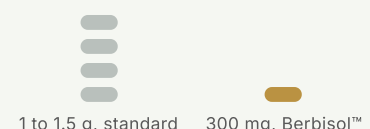
Comparative human pharmacokinetics.



8× more
berberine absorbed.
Higher AUC, at an equal dose



Three times
higher concentration.
In the blood



One small dose.
300 mg per day

PHARMACOKINETIC STUDY

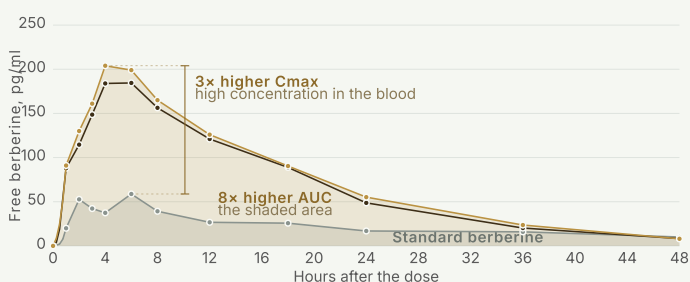
Higher absorption of berberine from Berbisol™, at an equal dose.

Proving its higher bioavailability.

30 adults · 300 mg, single dose · crossover · vs conventional berberine

Comparative pharmacokinetic profile

Free berberine in the blood after a single 300 mg dose of each



● Conventional berberine HCl ● Berbisol™
● Berbisol™ Plus

BERBISOL™

Against conventional berberine hydrochloride extract

3×

Higher Cmax: higher concentration in the blood

8×

Higher AUC per mg: higher bioavailability

BERBISOL™ PLUS

Against conventional berberine hydrochloride extract

2.7×

Higher Cmax: higher concentration in the blood

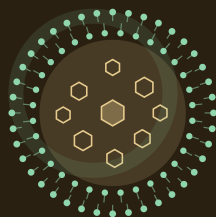
7.8×

Higher AUC per mg: higher bioavailability

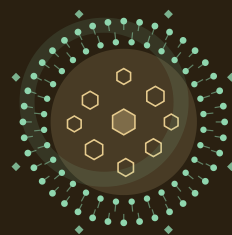
BioRelay™ TRUE WATER SOLUTION Powered by LIMAN™



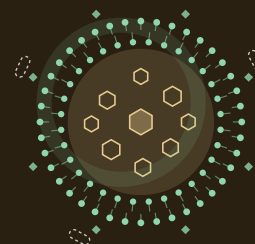
NLT 40% berberine HCl
Standardized, from a root-only extraction.



Lecithin microencapsulation
Improves dispersibility and stability, and reduces degradation.



Natural bioenhancers
A small blend of natural food additives, for better efficacy.



Berbisol™ Plus
Adds a spore-forming probiotic strain, for absorption.



KNOW YOUR INGREDIENT

For centuries, Indian barberry (*Berberis aristata*), known in Ayurveda as daruharidra, has been valued as an important botanical in traditional wellness practices, across more than 2,500 years of Ayurveda and Traditional Chinese Medicine.

SPECIFICATION

BOTANICAL	<i>Berberis aristata</i> , root
KEY ACTIVE	Berberine hydrochloride
STANDARDIZATION	NLT 40% berberine hydrochloride
DOSE	300 mg/day
APPLICATION FORMATS	⊖ Capsules ⊕ Coated tablets



Building a low-dose formula for metabolic health?



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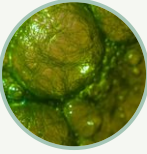
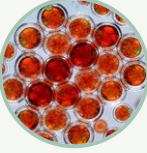
Precision botanical extraction.

Our extraction facility develops botanical extracts combining technical expertise with rigorous quality standards. We deliver a broad range of extracts.



THE RANGE Available in different grades and forms, with specifications tailored to your formulation needs.

INGREDIENT		STANDARDIZED TO	FORMS AND CONCENTRATIONS	HEALTH AREAS
	01 Berberine <i>Berberis aristata</i>	Berberine HCl	Extract 95% CWD Powder 20% Debittered Powder 25%	Metabolic Health
	02 Bacopa <i>Bacopa monnieri</i>	Bacosides	Extract 20–50% Debittered Powder 10%, 20%	Cognition
	03 Ashwagandha – Root Extract <i>Withania somnifera</i>	Withanolides	Root-only Extract 2.5%, 5%	Mood and Stress Sleep Cognition Sexual Wellness
	04 Ashwagandha – Whole Plant Extract <i>Withania somnifera</i>	Withanolides	Whole Plant Extract 2.5%, 5%	Mood and Stress Sleep Cognition Sexual Wellness
	05 Turmeric / Curcumin <i>Curcuma longa</i>	Curcuminoids	Extract 95% CWD Powder 10%, 15%	Joint Health Sports and Active Nutrition
	06 Ginger <i>Zingiber officinale</i>	Gingerols	Extract 5%, 10%, 20% Oleoresin 10%, 20%, 30%, 40% CWD Powder 10%	Women's Health Immunity Digestive Health
	07 Centella <i>Centella asiatica</i>	Triterpenes	Extract 90%	Skin Care Cosmetics Cognition

INGREDIENT		STANDARDIZED TO	FORMS AND CONCENTRATIONS	HEALTH AREAS
	08 Shilajit <i>Asphaltum punjabianum</i>	Fulvic Acid	Extract 75%	Energy and Stamina Endurance and Muscular Health Vitality
	09 Algal DHA <i>Schizochytrium microalgae</i>	DHA	Powder 10%, 20% Oil 35%, 40% CWD Powder 10%	Cognition
	10 Astaxanthin <i>Haematococcus pluvialis</i>	Astaxanthin	Oil 5%, 10%, 20% Powder 1%, 2%, 3%, 4%, 5%, 10% CWD Powder 5%	Eye Health Immunity
	11 Lutein Ester <i>Tagetes erecta</i>	Lutein Ester	Oil 20%, 40% Powder 10%, 20% Beadlet 5%, 10%, 20% CWD Powder 5%, 10%	Eye Health
	12 Free Lutein <i>Tagetes erecta</i>	Free Lutein	Oil 10%, 20% Powder 10%, 20%	Eye Health
	13 Zeaxanthin <i>Tagetes erecta</i>	Zeaxanthin	Oil 1%, 5%, 10% Powder 1%, 5%, 10% CWD Powder 5%	Eye Health
	14 Shatavari <i>Asparagus racemosus</i>	Saponins	Extract 50%	Women's Health

CWD: cold-water dispersible

Need a specification or a COA?

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WORK WITH US

Let's build something together.

Reach out to our team for ingredient information, samples, specifications and formulation support.

Request a sample

Samples in your working grade.

Technical documentation

COA, spec sheets and clinical summaries.

Formulation support

We help take each active into your format.



Plant-based ingredient innovation since 2009,
led by a team of 30+ scientists.

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SCAN FOR
ENNATURE.COM

ENNATURE
BIOPHARMA