

EubioQuercetin™

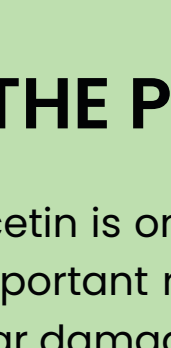
EubioQuercetin™ is a 100% natural water-soluble quercetin with rutinose that is more bioavailable than conventional, commonly available quercetin.

EubioQuercetin™ has research supporting benefits in the areas of:

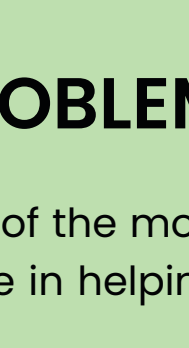
- Weight Management
- Mood Support
- Cognitive Health



GLUTEN FREE



DAIRY FREE



VEGAN



THE PROBLEM WITH QUERCETIN

Quercetin is one of the most abundant antioxidants and it plays an important role in helping the body combat free radicals and cellular damage.

But quercetin's low-bioavailability means efficacious doses of quercetin are often as high as 1,000 mg per day making it difficult to cross-formulate with other ingredients, create a proprietary blend, or develop a unique finished product. Standard commercial quercetin is also insoluble, thereby limiting formulations to capsules and tablets.

THE SOLUTION IS EUBIOQUERCETIN™

EubioQuercetin™ was developed to address the paradox in which quercetin loses its natural water-soluble properties when it is extracted, despite the presence of the water-soluble sugars. The quercetin molecule in the plant is in an amorphous state. When it is extracted, incorporation of water into the molecule changes the structure into an insoluble lattice structure.

This full-spectrum quercetin is a 100% natural modification of plant quercetin with significantly greater bioavailability and water-solubility than the conventional, commercially available ingredient.

EubioQuercetin™ is effective at low doses, providing formulators with cost-efficiencies, blending opportunities, and delivery format flexibility.

It also introduces new health benefits not typical of conventional quercetin.

This unique form contains the non-digestible oligosaccharide rutinose — a prebiotic — which helps to deliver quercetin directly to the colon.



EubioQuecetin™ Unique Features

- 100% natural quercetin with rutinose
- Delivered directly to the colon, where it positively impacts the bacterial flora
- Highly bioavailable
- 6,500 times more water soluble than regular quercetin
- ORAC score 1,300x greater than conventional quercetin
- Significantly suppresses reactive oxygen species(ROS)
- Retains glycosides that commercial quercetin loses during extraction
- Does not require granulation
- Consistent raw material supply
- Protected by 4 U.S. patents

Water Solubility: Solving the “Quercetin Paradox”

When quercetin was first developed as a dietary supplement, acid treatment removed the water-soluble sugars, thereby taking away the plant's natural water-solubility. While this process kept production costs low, it meant that quercetin was poorly absorbed by the human body and required high doses to initiate any measurable benefit.

Since then, some commercially available quercetin products have been chemically synthesized or enzymatically treated to change their water solubility. However, this is not a solution to the “Quercetin Paradox”, where natural quercetin is freely soluble in the plant, but when removed from the plant, it is completely insoluble in water, despite the initial presence of water-soluble sugars.

EubioQuercetin™ was developed through a proprietary manufacturing method, whereby the quercetin retains its natural water solubility when extracted by preventing incorporation of water into the quercetin molecule. This allows for the amorphous state and its water-soluble capabilities to be retained naturally without artificial modification.

Unlike Other Quercetin Products, Nothing Is Subtracted From or Added to the Natural Quercetin Molecule

The result is EubioQuercetin™ – a 100% natural, water-soluble quercetin with rutinose that features excellent bioavailability, superior enzyme inhibition activity in the pancreatic juice, and greater flexibility for various formulations.

Ingredient	Solubility*
Conventional Quercetin	1.2
Natural Quercetin	88
EubioQuercetin™	7,821

*Experiment conducted in water with pH 7.4 at 37oC.

Water-soluble EubioQuercetin™ significantly suppresses reactive oxygen species (ROS) due to free-radical oxidative stress much higher than insoluble quercetin.

Quenching effect on ROS of EubioQuercetin™ in aqueous media

Ingredient	ORAC (umoITE/g)
Commercial Quercetin	5
Quercetin 3 Rutinoidse	13
Vitamin C	3200
Glycosyl rutin	4600
EubioQuercetin™	6700

1300x

HEALTHY WEIGHT SUPPORT

In a 2024 yet-to-be-published study, researchers concluded that EubioQuercetin™ increases beneficial bacteria in the colon, resulting in the production of short-chain fatty acids (SCFAs) and acetic acid.¹

EubioQuercetin™ increased two probiotic bacteria, Phascolarctobacterium and Bacteroids, known for producing SCFAs linked to improving immune function and metabolic health.¹

Another bacteria that saw an increase, Odoribacter, is known for producing SCFAs like butyrate that support gut and metabolic health.¹

EubioQuercetin™ also supported an increase in Flavonifractor bacteria which promotes the production of acetic acid. Healthy levels of acetic acid are known to have a positive impact on glucose production, further stimulating the effects of GLP- 1 release, cardiovascular health and improving oxidative stress response.

Researchers also found that EubioQuercetin contributes to a reduction in cortisol production, thereby moderating fat storage.¹

Water-soluble EubioQuercetin™ effectively inhibits the digestion of fats/carb by the enzyme lipase in the pancreatic juice (pH = 7-8) better than insoluble conventional quercetin.

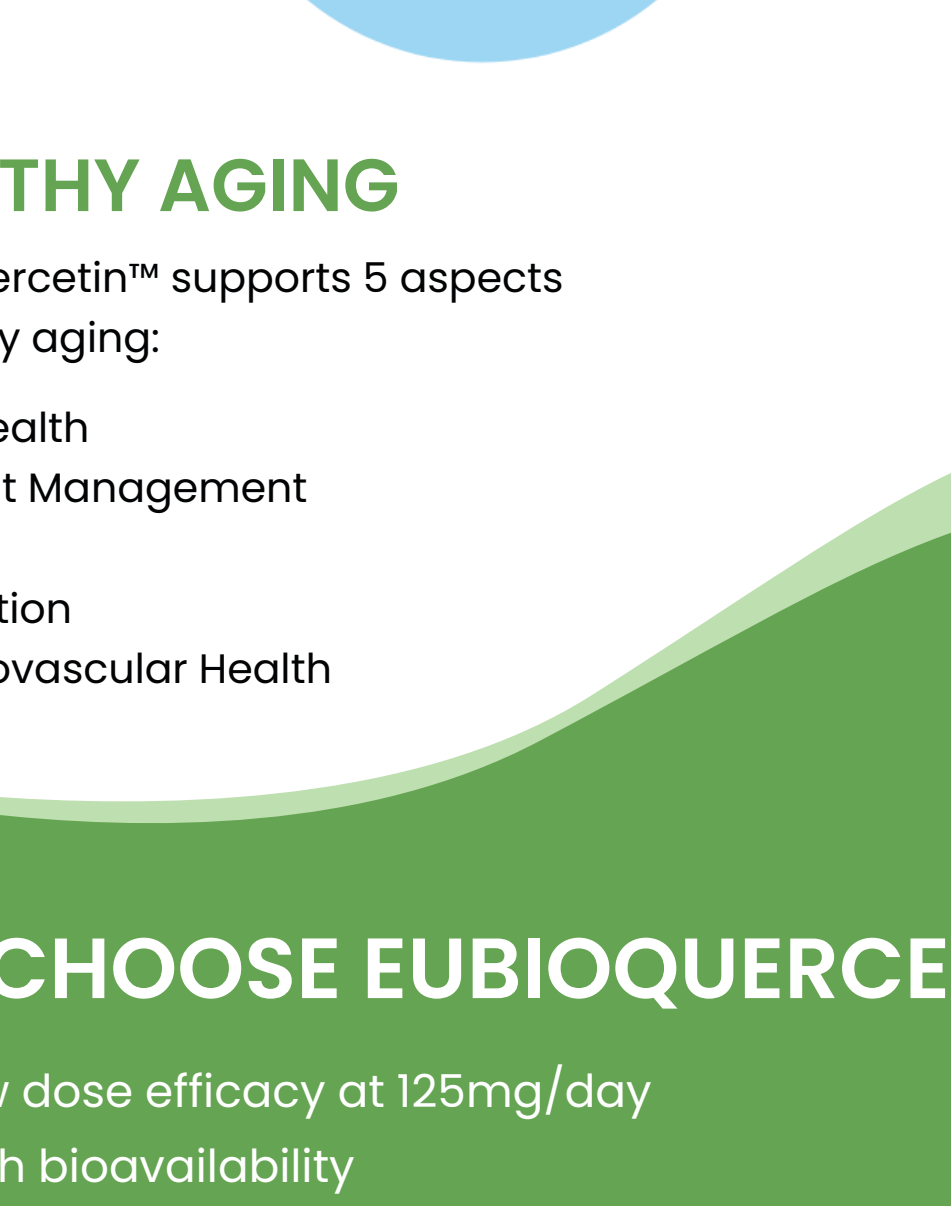
MOOD SUPPORT AND COGNITIVE HEALTH

More than 90% of the body's mood-enhancing serotonin is produced in the large intestine. In a soon to be published clinical study, researchers found that EubioQuercetin™ supports serotonin production by decreasing cortisol-- a serotonin inhibitor.¹

By inhibiting monoamine oxidase (MAO) which breaks down neurotransmitters such as serotonin, dopamine, and norepinephrine, EubioQuercetin™ may offer antioxidant protection to the neurotransmitters serotonin, dopamine, and norepinephrine.

It has also been shown to protect against neuronal damage and enhances neurogenesis and neuronal longevity by modulating a broad number of kinase signaling cascades such as phophoinositide 3- kinase (PI3-kinase), AKT/PKB tyrosine kinase and Protein kinase C (PKC).

It acts as an effective therapeutic agent against various neurodegenerative disorders through the suppression of oxidative stress and enhancing neurogenesis.



HEALTHY AGING

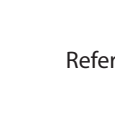
EubioQuercetin™ supports 5 aspects of healthy aging:

- ✓ Gut Health
- ✓ Weight Management
- ✓ Mood
- ✓ Cognition
- ✓ Cardiovascular Health

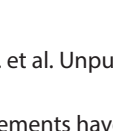
WHY CHOOSE EUBIOQUERCETIN™?

- Low dose efficacy at 125mg/day
- High bioavailability
- High water solubility
- Delivery format flexibility
- Consistent supply chain
- Unique prebiotic rutinose component
- Delivers prebiotic microbiome support to the colon

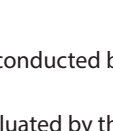
Delivery Formats



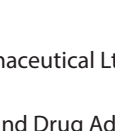
Capsule



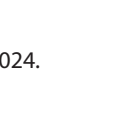
Tablet



Food



Gummy

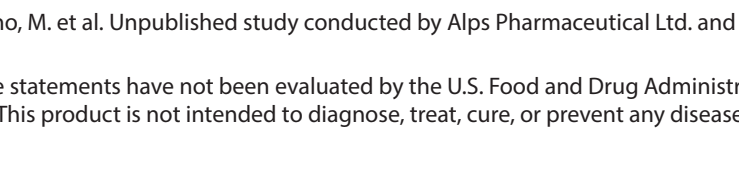


RTM

Functions

Microbiome Support, Weight Management, Cardiovascular Health, Mood Support, Cognitive Health.

To request more information on EubioQuercetin, please visit our [website](#) or [contact a sales representative](#).



Reference: ¹Ono, M. et al. Unpublished study conducted by Alps Pharmaceutical Ltd. and partners. 2024.
These statements have not been evaluated by the U.S. Food and Drug Administration.
This product is not intended to diagnose, treat, cure, or prevent any disease.