

PTEROvita[®]

FOR FOOD

What is it?

Pterovita[®] is a patented bioactive formula consisting of pterostilbene (nature's best SIRT1 activator and the most powerful antioxidant polyphenol) and picolinic acid (a human endogenous compound with neuroprotective properties).

Polyphenols are famous for antioxidant protection, cardiovascular support, anti-inflammatory action, metabolic regulation, neuroprotective action, microbiota improvement, and more.

Resveratrol is the most famous polyphenol but Pterostilbene is the most promising and beneficial, but their **low bioavailability has held them back.** ¹

CIRCE Health Science has developed a formula that significantly enhances the solubility and absorption rate of pterostilbene, providing at last the needed concentration to trigger its promising health benefits shown in studies. ²

Main benefits



Anti-aging

May support cellular function and contribute to slowing the aging process. ²



Anti-inflammatory

Could help alleviate inflammation and encourage natural healing. ²



Neuroprotective

Supports brain cell health and may promote cognitive well-being. ³



Beauty from within

Contributes to radiant and healthy skin by nourishing cells from the inside out. ²



Sports performance

Assists in improving recovery after physical activity.



Activates antioxidant system

May enhance the body's natural antioxidant defenses to protect against damage. ²

Regulates in cardiovascular health and diabetes

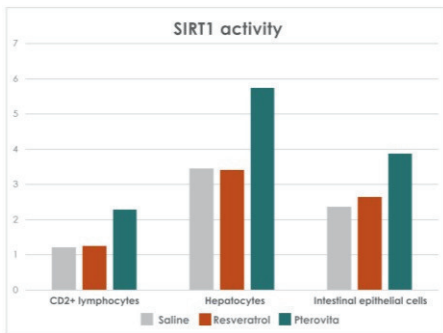
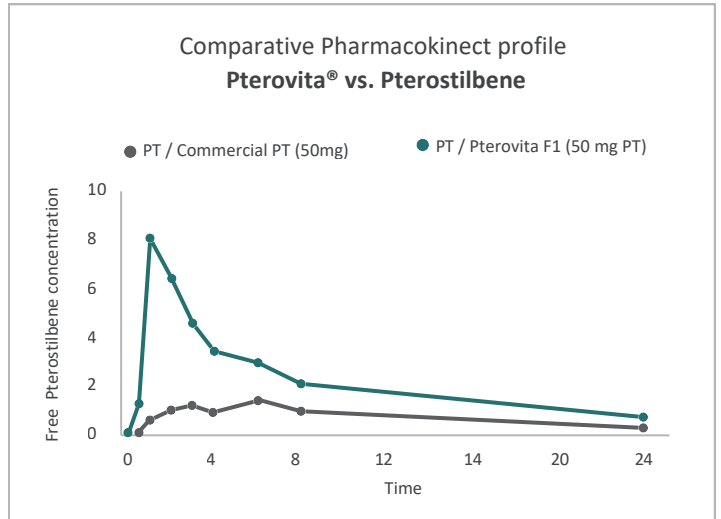


Could help regulate blood sugar levels and promote cardiovascular wellness. ⁴

What Pterovita® does

1 Enhanced bioavailability in humans:

Pterovita® has shown a 4x increase in pterostilbene's bioavailability compared to its original form. Not only that, but it also affords a higher peak (Cmax) of crucial importance to trigger the biological pathways.



2 Nature's most potent SIRT1 activator:

Pterovita® unlocks pterostilbene's full potential as nature's best SIRT1 activator, surpassing resveratrol by far. SIRT1 is a key regulator of cell defense and survival in response to stress, involved with diverse biological functions including cell development, metabolism, DNA repair, apoptosis, and longevity. ²

3 Beyond antioxidants:

Pterovita® doesn't just neutralize free radicals; it can help empower your body's own antioxidant defenses through Nrf2 activation, generating its own antioxidants. ² This proactive approach provides comprehensive protection against oxidative stress.



4 Pterovita® downregulates pro-inflammatory signal molecules:

Pterovita® can help cells downregulate NF-κB, a complex understood as the command-and-control center when it comes to inflammation in the body. ²

How can Pterovita® be used?



SUPPLEMENTS



BAKERY



BARs



BEVERAGES



GUMMIES

Pterovita[®] makes it easy to add Pterostilbene's benefits to your formulation:

- In its raw state, **Pterovita[®]** is a slightly yellow powder. No noticeable smell and a slightly bitter, spicy flavor.
- High temperature and pressure procedures to incorporate **Pterovita[®]** in food didn't affect its stability.
- The enhanced solubility of **Pterovita[®]** results in a 4-fold increase in AUC and a 7.5-fold increase in Cmax.
- **Pterovita[®]** has been shown to be stable as a solid for at least 30 months at long term conditions (25° C/77°F± 2° C and 60± 5% humidity). The stability test is still ongoing, and retest time expected to increase.
- **Pterovita[®]** is proven to be non-toxic, with 14 days of comprehensive toxicity studies at various doses and NOAEL established at 300 mg/kg/day.
- **Pterovita[®]** is manufactured in a cGMP, HACCP, Halal certified plant.
- **Pterovita[®]** has been granted Generally Recognized as Safe (GRAS) status by an independent who established a 220 mg/day ADI (for a 60 kg adult).



About Pterovita[®]

APPROVED:



Self-affirmed GRAS by Expert Panel according to FDA Guidelines

HUMAN TESTED PRODUCT:



Human-tested high bioavailability

HIGH QUALITY PRODUCT:



Produced under cGMP



Produced under HACCP



Halal Certified



Tested in Europe

SAFE PRODUCT AND CERTIFICATIONS:



Gluten Free
Allergens free



Banned substances-free
Aflatoxin free



Pesticide Free



Melamine Free
PCB Free



Nanomaterial tech. free
Non-GMO

Pterovita[®] can revolutionize your formulations with its increased bioavailability, exceptional antioxidant power and SIRT1 activation.

Want to take your products to the next level?

Let us help you with our expert formulation support.



References

1 Obrador E, Salvador-Palmer R, Pellicer B, López-Blanch R, Sírerol JA, Villaescusa JI, Montoro A, Dellinger RW, Estrela JM. Combination of natural polyphenols with a precursor of NAD⁺ and a TLR2/6 ligand lipopeptide protects mice against lethal γ radiation. *J Adv Res.* 2023 Mar;45:73-86. doi: 10.1016/j.jare.2022.05.005. Epub 2022 May 13. PMID: 35599107; PMCID: PMC10006514.

2 López-Blanch R, Oriol-Caballo M, Salvador-Palmer R, Moreno-Murciano P, Benloch M, Villaescusa JI, Montoro A, Prohens R, Albertí J, Estrela JM, Obrador E. Effective oral countermeasures against ionizing radiation-induced damage without hindering cancer radiotherapy. *Biomed Pharmacother.* 2026 Apr 6;198:119323. doi: 10.1016/j.biopha.2026.119323. Epub ahead of print. PMID: 41946301.

3 Socata K, Żmudzka E, Lustyk K, Zagaja M, Brighenti V, Costa AM, Andres-Mach M, Pytka K, Martinelli J, Mandrioli J, Pellati F, Biaggini G, Wlaz P. Therapeutic potential of stilbenes in neuropsychiatric and neurological disorders: A comprehensive review of preclinical and clinical evidence. *Phytother Res.* 2024 Mar;38(3):1400-1461. doi: 10.1002/ptr.8101. Epub 2024 Jan 17. PMID: 38232725.

4 Estrela JM, Ortega A, Mena S, Rodríguez ML, Asensi M. Pterostilbene: Biomedical applications. *Crit Rev Clin Lab Sci.* 2013 May-Jun;50(3):65-78. doi: 10.3109/10408363.2013.805182. Epub 2013 Jul 1. PMID: 23808710.



PTEROVita®

Leading experts in advancing ingredient optimization for enhanced health benefits.



Ready to find out more about how you can use Pterovita® in your formulations?
Contact our sales team. We're looking forward to working with you.

✉ dvallet@circescientific.com ☎ +34 722573756

This product is not intended to diagnose, treat, cure or prevent any disease. The described effects have not been evaluated or validated by FDA, EFSA, or any other competent authority. The information in this document has been carefully compiled to the best of our knowledge. This information does not exempt from the obligation to identify and control the product in relation to the intended use. Our products are sold subject to the understanding that prospective purchasers will conduct their own evaluations to determine the suitability of the products in their applications. Use of this information is at the purchaser's discretion and risk. Local food regulations should always be consulted with respect to specific applications and necessary declarations and labeling. Legislation may vary from country to country. The scientific and technical information contained in this document is intended for its business-to-business use.