

PTEROYOUTH

The most effective way to put the unmatched anti-aging power of blueberries into your skincare product



Life Extension Magazine calls blueberries “the best anti-aging fruit”! It's hard to beat this berry's reputation for supporting longevity.

Key to blueberries' rejuvenating power is the molecule, pterostilbene. Blueberry plants produce pterostilbene in order to survive exposure to UV radiation, drought, microorganisms and other environmental threats.

And just as in plants, this molecule can help human skin stay healthy in similarly tough conditions... *In vitro*, *in vivo* and clinical research on pterostilbene links it to keeping skin smooth, elastic and youthful despite the unforgiving treatment life throws at it.

However, due to poor solubility, pterostilbene is not an easy molecule to use in skincare products...

Pteroyouth solves this problem by making it easy to deliver pterostilbene's youth-preserving power right to the skin.

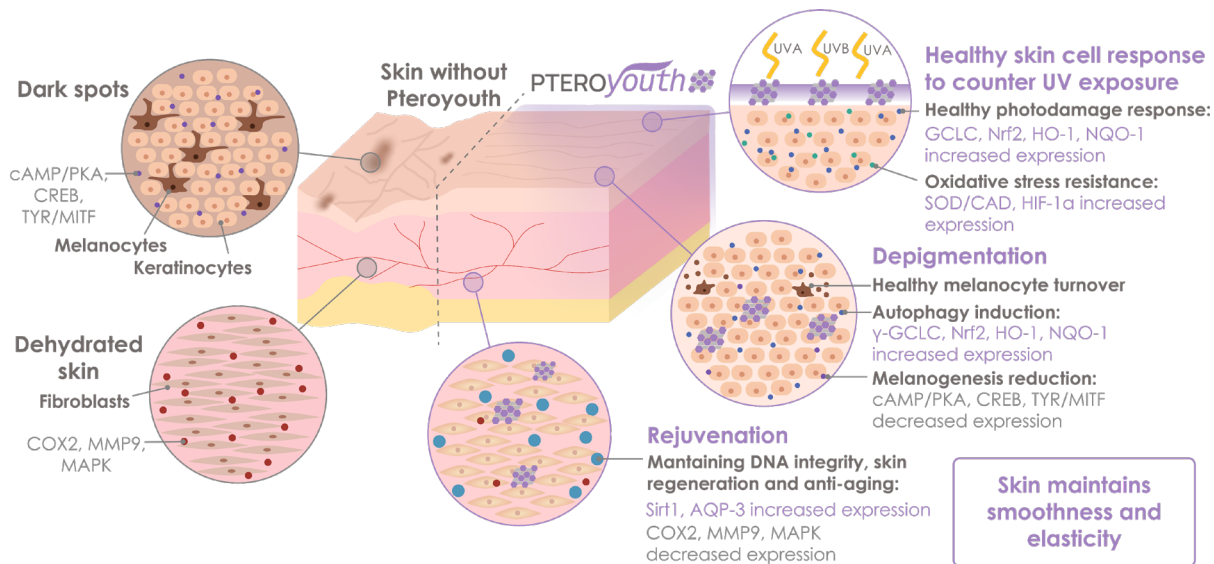
Pteroyouth is a patented cocrystal engineered by combining **pterostilbene** with **picolinic acid**, a naturally-occurring molecule in the human body and a derivative of the amino acid tryptophan. Picolinic acid is known to boost the body's mineral absorption and immune response. This innovative approach to molecular engineering creates a synergy of the two chemicals that's easier to work with.

- Helps skin maintain a healthy structure when exposed to UVA and UVB rays.
- Supports a healthy cellular response to maintain normal skin structure when exposed to ionizing radiation.
- Provides antioxidant support and strengthens the body's innate antioxidant defenses.
- Helps skin modulate inflammation response by increasing cellular production of Nrf2 and decreasing cellular production of NF-kB, key regulators of cellular inflammatory response.
- Helps skin modulate pigmentation associated with environmental stresses and age.
- Boosts the activity of sirtuins, the “longevity enzymes”, known to regulate cell activities linked to cell vitality and aging.



Pteroyouth has been given the INCI name Resveratrol Dimethyl Ether (and) Picolinic Acid

See Figure ►►



It's hard to find another multifunctional ingredient like Pteroyouth!

In such a cost-effective, easy-to-work-with package:

Not to mention...

Pteroyouth improves pterostilbene...

- Dissolution rate by as much as 35-fold
- Solubility in different media by at least 2 to 5 times
- Oral bioavailability by a factor of 10. Preliminary data indicates a similar improvement with topical bioavailability.

Because it is both highly bioavailable orally and topically, Pteroyouth is a perfect ingredient for "Beauty from Within" packages pairing supplements with topicals.

Plus, **Pteroyouth** is

- **Stable** in an aqueous medium after 4 months with 95% of the original concentration still detected. High pressure and temperature as high as 90°C also did not impact stability.
- Is **manufactured under strict quality control** in an FDA-inspected GMP Plant and certified HACCP.

- **Cost-effective** with as little as 10 µg/ml of **Pteroyouth** yielding noticeable results. And by using synthetic pterostilbene and picolinic acid in the crystallization process, we further conserve on cost as well as natural resources.
- Is cruelty-free, Halal, vegan-friendly and gluten-free.

Our ongoing commitment to developing proven ingredients

Building on the existing data supporting Pteroyouth and pterostilbene's application in skincare products, we are currently conducting additional in vitro and human clinical studies. We expect to have these results in by late 2023 and early 2024.

Get the details on how Pteroyouth can strengthen your skincare product... Contact our sales team: info@circescientific.com +34 871 94 60 47

We look forward to meeting with you. If you'd like a FREE SAMPLE, let us know