



## Layn Natural Ingredients Introduces SophorOx, A Potent Natural Antioxidant for Healthy Inflammation Response

**IRVINE, Calif., Sept. 15, 2021** – Layn Natural Ingredients, one of the world's largest innovators of natural botanical extract ingredients and solutions serving the biggest brands in food, beverage, flavor, nutraceutical, personal care, animals and pets, today announced the launch of SophorOx™, a natural antioxidant extract ingredient scientifically supported by a new study demonstrating its ability to inhibit oxidative stress and support a healthy inflammation response. SophorOx™ is particularly well suited for use in human dietary supplements, sports nutrition, and personal care applications, as well as pet supplements.

A recent in-vivo study headed by internationally renowned Vedic Lifesciences demonstrated that SophorOx™ is a significant potent antioxidant. The research showed that daily oral administration of SophorOx™, at an equivalency of 500mg per day for an average adult, significantly reduced oxidative stress and inflammation markers associated with high intensity exercise. Additionally, daily oral administration in animal subjects was shown to be safe, having no adverse effects in terms of feed intake, body weight gain, liver function, blood glucose levels, or signs of toxicity.

SophorOx™ was shown to inhibit pro-inflammatory compounds and reactive molecules that cause oxidative stress, including:

- **8-Isoprostane:** A reliable biomarker of lipid peroxidation, used as a marker of antioxidant deficiency and oxidative stress
- **Malondialdehyde (MDA):** Derived from polyunsaturated fatty acid peroxidation in the cells due to peroxidative processes, an increase in free radicals causes overproduction of MDA
- **8-hydroxydeoxyguanosine (8-OHdG):** Produced during repair of damaged DNA, considered to be an important marker for oxidative stress induced tissue damage
- **C Reactive Protein (CRP):** A marker of chronic systemic inflammation frequently used in cardiovascular risk assessment
- **Interleukin-1 beta (IL-1β):** Modulates pro-inflammatory cytokine production
- **Interleukin-6 (IL-6):** Pro-inflammatory cytokine produced in immune system responses



A preliminary in-vitro cell line study also supported SophorOx™ as a potent antioxidant, displaying prominent ability to block mediators of oxidative stress and inflammation.

SophorOx™ is particularly suited for nutraceutical products designed to support joint health, inflammation, exercise recovery, cognition, eye health, heart health, allergies and skin health - and can be used as a potent stand alone ingredient, or in combination with complementary ingredient formulations.

“At the core of Layn Natural Ingredients’ vision is innovating natural botanical solutions that benefit people, pets and the planet,” explains Jim Roza, Chief Scientific Officer at Layn USA. “We developed SophorOx™ by looking at consumer trends and needs, including healthy agers and millenials, who are increasingly seeking natural, preventative strategies to live longer, healthier lives, along with sports and active consumers who experience oxidative stress and are looking to natural solutions for post-work out healthy inflammation support, and the growing populations of gamers, workers and students increasingly in front of computers, not to mention pets who can also benefit from this powerful ingredient.”

Derived from *Sophora japonica L.*, SophorOx™ is sustainably produced and fully traceable. This natural, botanical ingredient includes select, synergistic polyphenols standardized to ≥ 90% flavonoids, including quercetin, rutin, isorhamnetin, kaempferol, genistin and genistein.

With decades of experience in global, fully vertically integrated botanical ingredient innovation and manufacturing, Layn Natural Ingredients controls a significant portion of global market share of *Sophora japonica* extraction with full traceability for SophorOx™ from field to extraction.

For more information about SophorOx™, and the recent studies demonstrating its efficacy, please contact [info@layn-usa.com](mailto:info@layn-usa.com) or visit: [www.layncorp.com](http://www.layncorp.com).

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