



SophorOx Study Featuring Quercetin Published in *The Journal of Complementary and Integrative Medicine*

Demonstrated Ingredient Efficacy in Inhibiting Oxidative Stress and Supporting Healthy Inflammation Response

IRVINE, Calif., March. 9, 2022 – Layn Natural Ingredients, one of the world’s largest innovators and manufacturers of natural botanical extract ingredients and solutions serving the biggest brands in food, beverage, flavor, nutraceutical, personal care, animals and pets, today announced that its newest study, [**Assessment of Anti-inflammatory and Antioxidant Activity of SophorOx**](#) has been published in ***The Journal of Complementary and Integrative Medicine***. The study results show that the quercetin and flavonoid-rich natural antioxidant extract ingredient is effective in its ability to inhibit oxidative stress and support a healthy inflammation response.

Conducted by James Roza and Devanand Shanmugasundaram, the *in vitro* animal study was headed by internationally renowned Vedic Lifesciences. It demonstrates that SophorOx™ is a significant potent antioxidant shown to inhibit pro-inflammatory compounds and reactive molecules that cause oxidative stress. The study concludes that SophorOx may significantly reduce oxidative stress and inflammation markers. 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.

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.

SophorOx is particularly well suited for use in human dietary supplements, sports nutrition, and personal care applications, as well as pet supplements. It is an important consideration for 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.

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.

Study Reference: Shanmugasundaram, Devanand and Roza, James Martin. "Assessment of anti-inflammatory and antioxidant activity of quercetin–rutin blend (SophorOx™) – an *invitro* cell-based assay" *Journal of Complementary and Integrative Medicine*, 2022. <https://doi.org/10.1515/jcim-2021-0568>.

For more information on SophorOx, and to explore if it is right for your application, please contact info@layn-usa.com or visit: www.layncorp.com.

Layn Natural Ingredients will also be discussing SophorOx in **Booth #4353** at Natural Products Expo West in Anaheim, CA March 10-12, 2022. Please stop by and see them.

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About Layn Natural Ingredients:

Layn Natural Ingredients is one of the world's largest innovators of natural botanical extract ingredients and solutions serving the biggest brands in food, beverage, flavor, nutraceutical, sports nutrition, personal care, animals and pets for over 25 years. Truly vertically integrated, Layn offers nearly three decades of experience in providing a fully secure, manufacturer-direct, transparent and scalable supply chain. From seeds and agronomy, to extraction and formulation, Layn is committed to quality, innovation and sustainability. Its world-class R&D operation includes more than 2.2 million square feet of state-of-the-art extraction, and global innovation centers throughout the world to conduct research, ensure quality, and provide formulation and application guidance. Layn is also the parent company of wholly owned subsidiary, HempRise, a US-based entity specializing in the direct manufacture and innovation of CBD and hemp extract ingredients. *Botanify* your product portfolio now with Layn Natural Ingredients – Email botanify@layn-usa.com, or visit: www.layncorp.com.