



Vasodilator from Citrus Peels

 **Prinova**
NAGASE Group



*7 Published Clinical Studies, Human,
Double Blind, Placebo-Controlled*



Activates in 30 Minutes²

18%

*Increase in Blood Flow
Seen in Clinical Study³*



*InVitro Study Shows
Increase in Nitric Oxide⁴*

What is CITRAPEAK™?

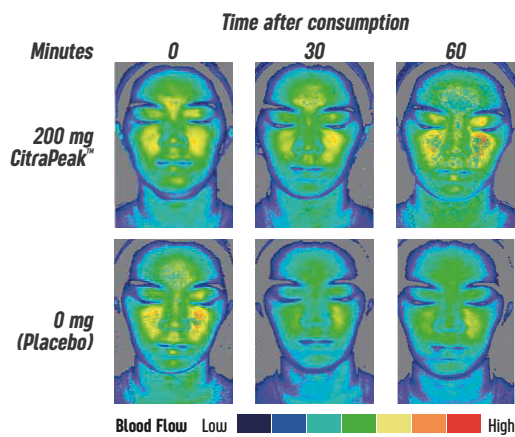
CitraPeak™ is the industry's first 100% soluble form of hesperidin, a flavonoid found in citrus fruit peels. Solubility means fast release, allowing the vasodilation and pump effects of hesperidin to shine in pre-workout applications. Derived from orange peels, CitraPeak™ is clean, near colorless, and near tasteless. A broad body of clinical work supports CitraPeak's™ effectiveness.¹

INCREASE THERMOGENIC EFFECT

Cold condition test - test group 5.4°F warmer (surface temp)¹

Users report increased sweating at room temperature

Notable difference on dose #1 after 30 minutes

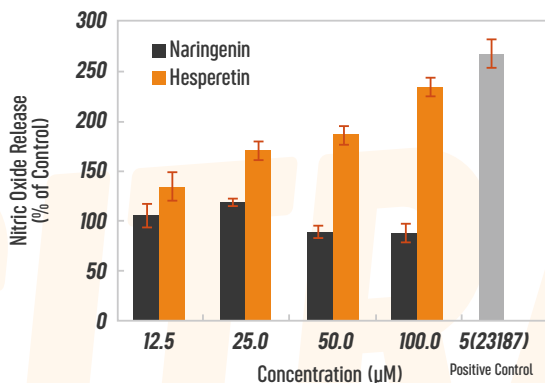


Visual scanning of face surface using a laser doppler blood flowmeter.³

INCREASE NITRIC OXIDE

CitraPeak™ is broken down in body into Hesperetin

In vitro study (below) shows Nitric Oxide increase caused by Hesperetin⁴



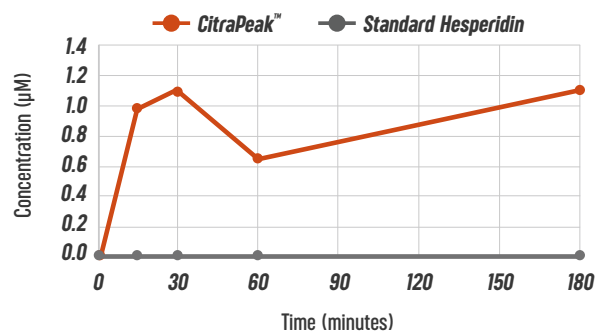
*These claims have not been evaluated by the FDA.

TIME RELEASE

100,000x more soluble than standard hesperidin⁵

Activates in 30 minutes²

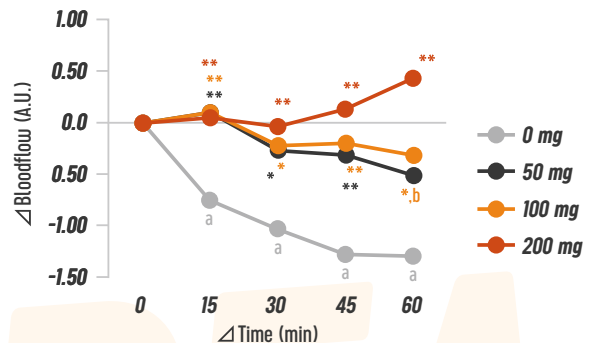
347x more bioavailable than standard hesperidin from 0-60 min²



INCREASES BLOOD FLOW

18% increase in blood flow vs. control³

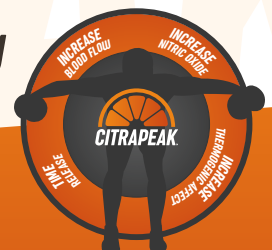
Dose dependent affect



Test Condition: 24°C, RH55% with test solutions at 24°C, n=12. Subjects minimized their movements during the test period, which reduces facial blood flow. Facial blood flow was measured using a laser doppler blood flowmeter before and after consuming the test solutions. (** p<0.01, * p<0.05 vs. placebo, a: p<0.01, b: p<0.10 v. time 0)

Serving Size 200mg

Manufactured by Nagase Group



1. K. Yoshitani et al. Effect of α-Glucosylhesperidin on Poor Circulation in Women. Journal of Nutritional Science and Vitaminology 61: 233-239 (2008)

2. M Yamada et al. Bioavailability of Glucosyl Hesperidin in Rats. Bioscience Biotechnology and Biochemistry 70(6): 1386-1394 (2006)

3. S. Endo. Dietary Glucosyl Hesperidin Improves Blood Flow, Skin Color and Skin Conditions. The Society for the Study of Hesperidin (2015)

4. L Liu et al. Distinct Effects of Naringenin and Hesperetin on Nitric Oxide Production from Endothelial Cells. Journal of Agricultural and Food Chemistry 56: 824-829 (2008)

5. H Mitsuzumi et al. Glucosyl Hesperidin Lowers Serum Triglyceride Level in the Rats Fed a High-Fat Diet through the Reduction of Hepatic Triglyceride and Cholesteryl Ester. Japanese Pharmacology & Therapeutics 39(8): 727-740 (2011)