

OPC-3® Original Research Articles/ References

A recent study, e-published in *Phytotherapy Research*, evaluates how quickly Isotonix OPC-3® is absorbed vs. the same formulation in tablet form (not commercially available.)

A group of European researchers examined, over a four hour period, the ability of Isotonix OPC-3 to act as an antioxidant by measuring oxygen free radicals in the blood of human subjects.

Isotonix OPC-3 reduced plasma oxygen free radicals (working as an effective antioxidant) within 10 minutes. The OPC-3® tablet took about 1 hour to produce a similar effect. Furthermore, the investigators noted that Isotonix OPC-3 had a stronger antioxidant effect throughout the entire 4 hour period vs. OPC-3 in tablet form.*

The authors concluded: “the findings demonstrate that the flavonoid mixture provided in isotonic OPC-3 is significantly more bioavailable in humans, in terms of antioxidant activity than an equivalent mixture in tablet form. Furthermore, the isotonic OPC-3 formulation resulted in a stronger antioxidative effect than an equivalent mixture in tablet form.*

Accelerated Antioxidant Bioavailability of OPC-3 Bioflavonoids Administered as Isotonic Solution.

Cesarone MR, Grossi MG, Di Renzo A, Errichi S, Schönlau F, Wilmer JL, Lange M, Blumenfeld J. *Phytother Res.* 2009 Jun;23(6):775-7.

To view the abstract, click on: <http://www.ncbi.nlm.nih.gov/pubmed/19172583>

To purchase a reprint of the article, click the link below to go directly to the publisher’s site, then click on Full Text “PDF” and follow their instructions.

<http://www3.interscience.wiley.com/journal/121659962/abstract>

*The statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

The following two original research articles can be used to provide support to our already approved product benefits. (see “Benefits” under OPC-3 on your web portal.)

Improvement in Circulation and in Cardiovascular Risk Factors with a Proprietary Isotonic Bioflavonoid Formula OPC-3.

Cesarone MR, DiRenzo A, Errichi S, Schonlau F, Wilmer JL, Blumenfeld, J. Department of Biomedical Science, G D’Annunzio University Chieti, Pescara, Italy. *Angiology* 2008 Aug-Sep; 59(4):408-14.

To view the abstract and access the article, click on:

<http://ang.sagepub.com/cgi/content/abstract/59/4/408>

Potential Benefits on Impairment of Endothelial Function after a High-fat Meal of 4 weeks of Flavonoid Supplementation;

T.A. Barringer, L. Hatcher, H.C. Sasser; eCAM Advance Access published online on July 3, 2008.

<http://ecam.oxfordjournals.org/cgi/content/abstract/nen048v1>