Nutritionals

Report on antioxidant capacity (ORAC) of EnviroHealth Natural Fusion

For FFi, Orlando, Florida

Subject: Antioxidant/Detox drink mix product
Developed by FM Nutritionals for FFI, LLC., Orlando, Florida
Submitted to Laboratories for ORAC testing

Product: Market name: *Natural Fusion* for EnviroHealth division of FFi
Sample identified as: DETOX 1, Lot #0108

Test Date: January 17th, 2008 – Lab ID: 08-0076

Description:

ORAC (Oxygen Radical Absorbance Capacity) is a measure of the scavenging capacity of antioxidants. The ORAC assay is widely accepted as the most common and reliable measurement of the antioxidant capacity of a substance or formula.

On January 10th, 2008, Nutritionals/I submitted a sample of antioxidant/detox effervescent drink mix powder, since named *Natural Fusion*, to Labs, for independent ORAC testing. Results indicated below.

Results:

ORAC per Gram:
As indicated in "Report for by Laboratories, the drink mix sample "DETOX 1" ORAC assay produced a total ORAC value of 1,482 units per gram dry powder.

ORAC per Serving:
One serving of antioxidant/detox drink mix is equal to 5 grams multiplied by 1,482 ORAC units per gram.

The ORAC value of Natural Fusion effervescent drink mix is **7,410 per serving.**

Report

Sample ID	Lab ID	$ORAC_{hydro}$* (µmoleTE/g)	$ORAC_{lipo}$^ (µmoleTE/g)	$ORAC_{total}$ (µmoleTE/g)
DETOX 1 Lot # 0108	08-0076	1,444	38	1,482

*The ORAC analysis provides a measure of the scavenging capacity of antioxidants against the peroxyl radical, which is one of the most common reactive oxygen species (ROS) found in the body. $ORAC_{hydro}$ reflects water-soluble antioxidant capacity and the ^ $ORAC_{lipo}$ is the lipid soluble antioxidant capacity. $ORAC_{total}$ is the sum of $ORAC_{hydro}$ and $ORAC_{lipo}$. Trolox, a water-soluble Vitamin E analog, is used as the calibration standard and the ORAC result is expressed as micromole Trolox equivalent (TE) per gram.

The acceptable precision of the ORAC assay is 15% relative standard deviation.[1-2-3]

Testing performed by J. Dion.

Approved by:
Boxin Ou, PhD.

B-7041 / 1-17-08 lrh

[1] Ou, B; Hampsch-Woodill, M.; Prior, R. L.; Development and Validation of an Improved Oxygen Radical Absorbance Capacity Assay using Fluorescein as the Fluorescent Probe. Journal of Agricultural and Food Chemistry.; **2001**; 49(10); 4619-4626

[2] Huang, D.; Ou, B.; Hampsch-Woodill, M.; Flanagan, J.; Deemer, E. K.; Development and Validation of Oxygen Radical Absorbance Capacity Assay for Lipophilic Antioxidants using Randomly Methylated –Cyclodextrin as the Solubility Enhancer. Journal of Agricultural and Food Chemistry.; **2002**, 50(7); 1815-1821.

[3] Ou, B.; Huang, D.; Hampsch-Woodill, M.; Method for Assaying the Antioxidant Capacity of A Sample. ***US Patent 7,132,296 B2***