

Phone: 508.291.1830 Fax: 508.295.6615

Report for P.M.B. Technologies, LLC

Sample ID	Lot Number	Brunswick ID	
Protocel 23	n/a	05-0662	
Protocel formula 50	3112606	05-0871	

The samples were prepared by mixing 1ml sample with 49ml mobile phase A (pH=2.5) They were sonicated 15min, centrifuged, filtered and injected.

The gradient HPLC system includes a HP 1110 system equipped with a DAD detector (Hewlett-Packard, Palo Alto, CA).

The instrumental conditions are summarized below:

Mobile phase:

A: DI H2O:Acetonitrile: Acetic Acid (89:9:2) B: Acetonitrile:DI H2O (80:20)

Gradient: 0-10 min. linear 0%B

10-25 min. linear 40% B 25-30 min. linear 100% B 30-35 min. linear 100%B

Column: Phenomenex Luna Phenyl-Hexyl (250 x 4.6mM)

Flow rate: 1.0 ml/min.

Absorption: 200, 280, and 500nm

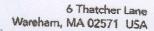
Testing performed by N McHale and B. Ou.

Boxin Ou, PhD.

B-2955 / 4-26-05nm

Approved by:

IMPROVING HEALTH THROUGH SCIENCE





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Report for P.M.B Technologies LLC

Sample ID	Brunswick Lab ID	ORAC _{hydro} * (µmoleTE/L)
Protocel 50 Lot# 3112606	05-0871	1,391,605

*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.

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 liter.

The acceptable precision of the ORAC assay is 15% relative standard deviation.

Testing performed by J. Flanagan.

Approved by: 2

B-2955b/5-18-05 jt

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



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Report for P.M.B Technologies LLC

Sample ID	Brunswick Lab ID		ORAC _{hydro} * (µmoleTE/L)
Protocel 23	05-0662		1,450,935
Lot# 3112607 ex 12/05		:	

*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. ORAChydro reflects water-soluble antioxidant capacity.

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 liter.

The acceptable precision of the ORAC assay is 15% relative standard deviation.

Testing performed by J. Flanagan.

Approved by: Boxin Ou, PhD.

B-2955 / 3-15-05 kp

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