

Report for Bio Pharma Scientific


Sample ID	Brunswick Lab ID	ORAC _{hydro} * (μ moleTE/g)	ORAC _{lipid} ^ (μ moleTE/g)	ORAC _{total} (μ moleTE/g)
Greens Powder Lot # 002608	06-3109	459	14	473

*The ORAC analysis provides a measure of the scavenging capacity of antioxidants against the peroxy 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_{lipid} is the lipid soluble antioxidant capacity. ORAC_{total} is the sum of ORAC_{hydro} and ORAC_{lipid}. 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

Testing performed by J. Frietas.

Approved by:


 Boxin Ou, PhD.
 Vice President

B-4831 / 8-18-06 lrh

Samples will be discarded one month from report date, unless otherwise notified by customer in writing.

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 α -Cyclodextrin as the Solubility Enhancer. *Journal of Agricultural and Food Chemistry*; 2002, 50(7); 1815-1821.