

01/07/2010

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Certificate of Analysis**Customer: Optigenex, INC.****Sample Identification:**

Batch #: B-9771

Date Received: 12/31/2009

Results:

Description	BL ID	Test	Result	Units
AC-11® Oral Grade, Powder, 280809.1785	09-2973	ORAC _{hydro}	807	μmole TE/gram
		ORAC _{lipo}	5	μmole TE/gram
		ORAC _{total}	812	μmole TE/gram

* The acceptable precision is < 15% relative standard deviation.

The ORAC result is expressed as micromole Trolox equivalency (μmole TE).

Signed for and on behalf of Brunswick Laboratories



Authorized Signature

Boxin Ou, Ph.D.

REFERENCES:**REFERENCES:**

- [1] Ou B, *et al.*, *J Agric and Food Chem*, **2001**, 49 (10): 4619-4626.
- [2] Huang D, *et al.*, *J Agric and Food Chem*, **2002**, 50 (7): 1815-1821.
- [3] Ou B, *et al.*, Method for Assaying the Antioxidant Capacity of A Sample. US Patent 7,132,296 B2.

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Report for Optigenex Inc.

Sample ID	Brunswick Lab ID	ORAC _{hydro} * (μ moleTE/g)	ORAC _{lipo} ^ (μ moleTE/g)	ORAC _{total} (μ moleTE/g)
AC-11® Lot # 02252009.OPT	09-1271	885	11	896

*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_{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: H.Ji

Approved by: _____
Boxin Ou, Ph.D.

B-9081 / 6-18-09 jo

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.

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