

08/12/2010

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## Certificate of Analysis

**Customer: Youngevity****Sample Identification:**

Batch #: B-10537

BL ID #: 10-2017

Description: Triple Treat Chocolate, Chocolate, 10201

Date Received: 07/30/2010

**Results:**

Test	Result†	Units
Antioxidant power against peroxy radicals	16,936	µmole TE/8 gram
Antioxidant power against hydroxyl radicals	33,760	µmole TE/8 gram
Antioxidant power against peroxynitrite	2,696	µmole TE/8 gram
Antioxidant power against super oxide anion	7,296	µmole TE/8 gram
Antioxidant power against singlet oxygen	2,336	µmole TE/8 gram
Total ORAC <sub>FN</sub> (sum of above)	63,024	µmole TE/8 gram

\* The acceptable precision of the ORAC assay is < 15% relative standard deviation

There are five predominant reactive species found in the body: peroxy radicals, hydroxyl radicals, peroxynitrite, super oxide anion, and singlet oxygen. Total ORAC<sub>FN</sub> provides a measure of the total antioxidant power of a food/nutrition product against the five predominant reactive species.

† Based on defatted weight.

Signed for and on behalf of Brunswick Laboratories



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**Authorized Signature**

**Boxin Ou, Ph.D.**

**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.*, *J Agric and Food Chem*, **2002**, 50 (10): 2772-2777.
- [4] Zhang, L. *et al.*, *Free Radic. Bio Med*, **2007**, 43 (suppl. 1): S17.
- [5] Dubost, N.J. *et al.*, *Food Chem*, **2007**, 105 (2): 727-735
- [6] Zhang, L. *et al.*, *J Agric and Food Chem*, **2009**, 57(7): 2661-2667.
- [7] Ou, B. *et al.*, Method for Assaying the Antioxidant Capacity of A Sample. US Patent 7,132,296 B2.

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