

08/12/2010

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## Certificate of Analysis

**Customer: Eniva Nutraceutics****Sample Identification:**

Batch #: B-10541a

BL ID #: 10-2021

Description: Vibe Fruit Sensations, Liquid, 658100

Date Received: 08/02/2010

**Results:**

Test	Result	Units
Antioxidant power against peroxy radicals	147.91	$\mu$ mole TE/ milliliter
Antioxidant power against hydroxyl radicals	275.80	$\mu$ mole TE/ milliliter
Antioxidant power against peroxynitrite	19.79	$\mu$ mole TE/ milliliter
Antioxidant power against super oxide anion	637.38	$\mu$ mole TE/ milliliter
Antioxidant power against singlet oxygen	72.78	$\mu$ mole TE/ milliliter
Total ORAC <sub>FN</sub> (sum of above)	1,153.66	$\mu$ mole TE/ milliliter

\* 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.

Signed for and on behalf of Brunswick Laboratories

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**Authorized Signature**

**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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## Certificate of Analysis

**Customer: Eniva Nutraceuticals****Sample Identification:**

Batch #: B-10541b

Date Received: 08/02/2010

**Results:**

Vibe Fruit Sensations, Liquid, 658100	10-2021	FRAP	116.64	$\mu$ mole TE/ milliliter
		TEAC	156.34	$\mu$ mole TE/ milliliter

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

The result is expressed as micromole Trolox equivalency ( $\mu$ mole TE).

Signed for and on behalf of Brunswick Laboratories

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**Authorized Signature**

**REFERENCES:**

[1] Ou B, *et al.*, Method for Assaying the Antioxidant Capacity of A Sample. US Patent 7,132,296 B2.

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