

04/09/2013

Page 1 of 1

Certificate of Analysis

Customer: GÉSz Gaál és Sziklás Kft.**Sample Identification:**

Batch #: B-12753a

BL ID #: 13- 0196

Description: Flavon Green, paste, 12215

Date Received: 03/27/2013

Results:

Analysis	Result	Units
Antioxidant power against peroxy radicals	120	μmole TE/gram
Antioxidant power against hydroxyl radicals	127	μmole TE/gram
Antioxidant power against peroxynitrite	18	μmole TE/gram
Antioxidant power against super oxide anion	1,097	μmole TE/gram
Antioxidant power against singlet oxygen	650	μmole TE/gram
Total ORAC _{FN} (sum of above)	2,012	μmole TE/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_{FN} provides a measure of the total antioxidant power of a food/nutrition product against the five predominant reactive species.

The ORAC result is expressed as micromole trolox equivalency (μmole TE) per gram.

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.

The results shown in this Certificate of Analysis refer only to the sample(s) tested, unless otherwise stated. Attention is drawn to the limitation of liability, indemnification and jurisdictional issues. This Certificate of Analysis cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this certificate is unlawful and offenders may be prosecuted to the fullest extent of the law.