

02/18/2016

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## Certificate of Analysis

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

Batch #: B-14903b

Date Received: 01/27/2016

**Results:**

Description	BL ID	Analysis	Concentration	Units
██████████ Chaga extract, capsule, 2016	16-0069	Superoxide dismutase	25.24	U/g

**Method Description:**

Superoxide dismutase (SOD) catalyzes the dismutation of the superoxide anion to molecular oxygen and hydrogen peroxide and thus forms a crucial part of the cellular antioxidant mechanism. The assay utilizes xanthine oxidase to generate superoxide, which is detected by the reaction with tetrazolium salt from the absorbance of the formed formazan dye.

**Released on behalf of Brunswick Laboratories by**

Jin Ji, Ph.D.

Chief Technology Officer

**REFERENCES:**

1. Maier, C.M. and Chan, P.H. Role of superoxide dismutases in oxidative damage and neurodegenerative disorders. *The Neuroscientist* **8(4)**, 323-334 (2002).
2. Sandstrom, J., Nilsson, P., Karlsson, K., *et al.* 10-Fold increase in human plasma extracellular superoxide dismutase content caused by a mutation in heparin-binding domain. *J. Biol. Chem.* **269(29)**, 19163-19166 (1994).

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