

# ABC Testing

## Advanced Botanical Consulting & Testing, Inc.

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ATTN: Victor Chavez Purchase  
Order #:

Client Sample ID: StemForte  
Code #  
Lot #: N/A  
Lab Number: 181677

Received Date: 10/11/2016

Report Date: 10/25/2016

### Analyses

### Results

Super Oxide Dismutase (SOD)

79.8 U/capsule

Average fill weight (based on 10)

506.62 mg/capsule

Method: Cayman Method Manual for Cat# 706002

Analyzed by: \_\_\_\_\_



Chemist

Approved by: \_\_\_\_\_

  
Wendi Wang, PhD, President



StemForte also contains Superoxide dismutase within the 24 ingredients according to our lab test done on Lot #609015.

Considered to be quite possibly the most powerful antioxidant our body creates, superoxide dismutase (SOD) is an enzyme found in almost all living cells. To really understand how this enzyme works in your body, you need to understand the negative effects of free radicals and oxidative stress.

Oxidative stress occurs when there is imbalance between the production of free radicals and the body's ability to defend or detoxify their harmful effects. If you are familiar with free radicals at all, you are probably aware of their damage potential. They are thought to be a contributing factor to a number of diseases including atherosclerosis, stroke, and arthritis.

A free radical is an especially reactive atom or group of atoms that has one or more unpaired electrons. If you remember your high school chemistry, you will remember that electrons come in pairs. When one electron is lost from that pair, it makes the atom "highly reactive" as it looks to replace that lost electron anywhere it can. In your body, those replacement electrons come from cells in your body--destroying those cells in the process. Your body is constantly replacing and repairing cells damaged by free radicals; but with the way we live and abuse ourselves, our bodies are bombarded with more free radicals than they can handle.

By supplementing with antioxidants, we help our bodies keep up with the carnage, and it is even possible to reverse some of that damage. So what are antioxidants? Antioxidants, quite simply, are compounds that render free radicals harmless and stop the chain reaction formation of new free radicals.

Superoxide dismutase (SOD) is an enzyme that facilitates the breakdown of the toxic superoxide radical into either ordinary molecular oxygen (O<sub>2</sub>) or hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>). Hydrogen peroxide is also damaging, but less so than the superoxide radical, and it is also degraded by catalase. SOD works along with glutathione to neutralize reactive oxygen molecules in the body.

SOD also works in the cytoplasm of the cell to prevent the hydroxyl radical from attacking enzymes, proteins, and the unsaturated fats in cell membranes. SOD is an extremely efficient enzyme; it catalyzes the neutralization of superoxide nearly as fast as the two can diffuse together spontaneously in solution. These are a few reasons you'll find SOD as an active ingredient within the 24 ingredients of StemForte

