

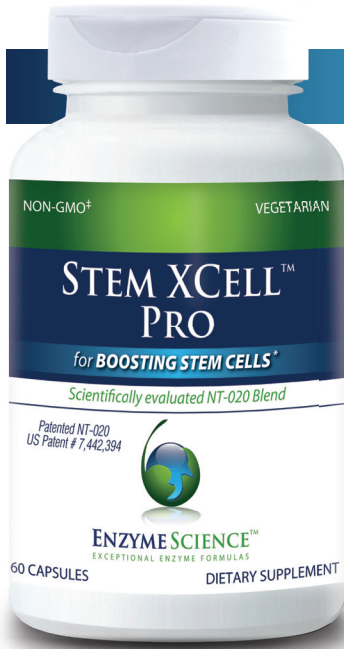


ENZYME SCIENCE™
EXCEPTIONAL FORMULAS

STEM XCELL™ PRO

for **BOOSTING STEM CELLS***

Scientifically evaluated NT-020 Blend*



There are over 200 different types of cells in the human body¹

Stem cells are the foundation for every organ and tissue in the body. The human body consists of more than 200 different types of cells; however, stem cells are particularly fascinating given their unique characteristics. They are able to self-renew through cell division, and they can develop into more specialized cells such as muscle cells, red blood cells, or brain cells. Due to the uniqueness of stem cell properties, scientists have long studied the correlation between stem cell health and aging. The combination of natural compounds supporting proliferation and the health of existing adult stem cells offers therapeutic potential for health and wellness.^{*2,3,4,5}

STEM CELL AND AGING

Stem cells form during different stages of life. Whereas embryonic stem cells form at the earliest stages of development, adult stem cells appear early on and remain with us throughout our lifetime. When a stem cell divides, each new cell has the potential either to remain a stem cell or to become another type of cell with a specialized function. As a result, adult stem cells are also referred to as tissue-specific and concentrate on repair and maintenance within the tissue or organ in which they live.¹ This process enables damaged cells to be replaced with healthy ones as a result of normal everyday life. As we age, the ability of our stem cells to self-renew, regenerate, and differentiate to specific cell types declines.⁶ Understanding the diversity of stem cell responses to oxidative stress and the process of aging has therefore been a focus in research.

ROLE OF PHYTOCHEMICALS AND OXIDATIVE STRESS IN CELLULAR REGENERATION AND COGNITIVE FUNCTION

Aging is a normal physiological process that occurs in cells and is a common stressor due to the repeated demands on stem cell function. Stress can arise from extrinsic factors, such as environmental, or intrinsic factors involving metabolic challenges such as generation of reactive metabolites that accumulate damage from repeated cell division.⁷ Oxidative stress results from an imbalance between reactive oxygen species (ROS) production and antioxidant defense mechanism.⁸ ROS, or free radicals, are produced by living organisms as a result of normal cellular metabolism. Recent studies have suggested that reactive oxygen species can regulate physiological and biological functions in cellular processes.^{9,10} Oxidative stress resulting from excessive reactive oxygen species production and impaired antioxidant systems can affect stem cell proliferation, differentiation, genomic mutations, aging, and stem cell health.⁸

Age-related increases in oxidative stress are thought to be linked to cognitive decline. Research has long described the positive impact of dietary phytochemicals such as polyphenols and flavonoids, on overall health and longevity.^{*11,12} These valuable compounds include anthocyanins found in berries, catechins in green tea, and resveratrol found in wine extracts.¹²

SUPPLEMENT FACTS

Vitamin D3 (as cholecalciferol)	50 mcg (2,000 IU)
Proprietary Blend NT-020	800 mg
Green Tea Extract (Leaf)	
Blueberry Powder (fruit)	
(Vaccinium corymbosum)	
Carnosine	
BioVin® Advanced Red Grape Extract	
(Vitis vinifera) (fruit) (5% resveratrol)	
VitaBlue® Blueberry Extract (fruit)	
Botanical Enhance Enzymes	25 mg
Hemicellulase	3,000 HCU
Cellulase	200 CU
Xylanase	250 XU
Pectinase (w/ Phytase)	5 Endo-PGU
Defenze™ Antioxidant Blend	25 mg
Catalase	12.5 Baker
Superoxide Dismutase (SOD)	4 mg
Alpha Lipoic Acid	4 mg
Protease Thera-blend™	2,500 HUT
Glutathione (reduced)	3 mg

OTHER INGREDIENTS:

100% Vegetarian Capsule (cellulose, water)

CONTAINS NO:

dairy, egg, preservatives, salt, sucrose, soy, wheat, yeast, nuts, corn, gluten, casein, potato, rice, artificial colors or flavors.

CONTAINS:

Sulfites

RECOMMENDED DOSAGE:

Take 2 capsules daily.

OUR QUALITY



GLUTEN FREE



DAIRY FREE



SOY FREE



NO FILLERS

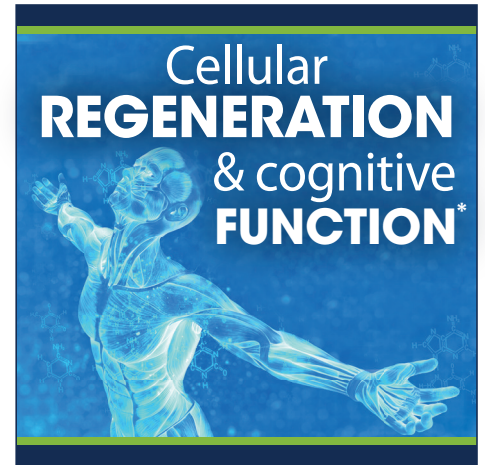
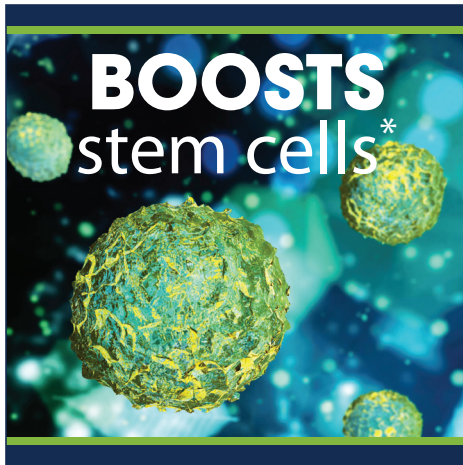


VEGETARIAN



NON GMO

3 BENEFITS IN 1



There is substantial evidence supporting the notion that dietary phytochemicals contribute to maintaining cognitive function.^{*12,13,14,15,16} Reactive species-quenching compounds, including the antioxidant enzymes catalase and superoxide dismutase (SOD), alpha-lipoic acid, and glutathione have also demonstrated protective properties for the brain and tissues under oxidative stress.*

NT-020

The patented NT-020 blend was developed by leading University scientists who analyzed over 100 natural compounds and discovered that blueberry and green tea extracts, L-carnosine, and Vitamin D3, in combination, demonstrated a synergy in increasing the number of adult stem cells.^{*5,16,17}

THE ROLE OF ENZYMES IN HEALTHY CELLS AND AGING

Enzymes are essential for many vital processes in the body, such as food digestion and other metabolic functions. Besides playing an important role in digestion and metabolism, enzymes have also been used to

protect cells from free radicals.*¹ Beyond antioxidant enzymes, studies have shown the therapeutic effect of proteolytic enzymes and its potential to mediate damaged proteins that are a result of oxidation and are accumulated as cellular debris.*¹⁸ In general these carbohydrases, which include hemicellulases, cellulase, xylanase, and pectinase, assist in the breakdown of complex carbohydrates in the body.*

STEM XCELL™ PRO ACHIEVING OPTIMAL HEALTH

In optimal health, the body has a strong and healthy population of adult stem cells to promote healthy tissue, immune, and cognitive function, by replacing cells lost to normal daily activities, stress, or injury. Stem XCell™ Pro is a powerful, one-of-a-kind formula delivering an array of phytochemicals, such as the patented blend of NT-020, botanical enhancing enzymes, and antioxidants to support the proliferation and health of the existing body's stem cell population, which is a contributing factor to healthy aging.*

REFERENCES

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*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.