



TA-65MD® 250 Unit Capsules (90 count)

CLINICAL APPLICATION

Activates Telomerase to Lengthen Telomeres in Humans³
Improves Cardiovascular Markers in Patients with Metabolic Syndrome⁷
Helps Support Healthy Immune System⁸



Overview

TA-65® is a patented, all natural, plant-based supplement which can help maintain or rebuild telomeres that diminish in cells over time.

The length of a person's telomeres is a good indicator of his or her overall health status; short telomeres have been associated with cellular aging and dysfunction.^{1,2} The real biological age of a person's body may be more or less than their chronological age. Telomere length is considered a key marker in measuring a person's biological age as opposed to their chronological age.

For a body to stay healthy, it is important to maintain telomere length. Having short telomeres can accelerate cellular dysfunction.

By activating an enzyme called telomerase, the TA-65® supplement can help slow down and possibly reverse telomere shortening.³

TA-65MD® nutritional supplements are the first in a line of products based on the TA-65® compound. TA-65MD® nutritional supplements are formulated through a proprietary process to increase the absorption (bioavailability) of TA-65® in the body. This process helps ensure that the compound is not digested before it reaches the bloodstream, where it can then be delivered to our cells. No other nutritional supplements utilize this proprietary technology.

TA-65MD® nutritional supplements have been proven to activate telomerase and lengthen telomeres in humans.³ They should be taken as part of an overall health and wellness regimen. TA-65MD® supplements have been proven safe and effective in more than 15 years of studies and in use by people worldwide.

T.A. Sciences®, in collaboration with experts around the world, has perfected exclusive methods for extracting, purifying and formulating the naturally-occurring TA-65® supplement.

What is a telomere?

Telomere (tel-uh-meer) from the Greek telos (end) and meros (part)

Telomeres are an essential part of human cells that affect how our cells age.^{4,5}

Telomeres are the caps at the end of each strand of DNA that protect our chromosomes, like the plastic tips at the end of shoelaces.²

Without the coating, shoelaces become frayed until they can no longer do their job, just as without telomeres, DNA strands become damaged and our cells can't do their job.²

Telomere shortening is involved in all aspects of the aging process on a cellular level. Telomere length represents our biological age as opposed to our chronological age.

Many scientific studies have shown a strong connection between short telomeres and cellular aging.⁶

* 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

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Supplement Facts

Serving Size: 1 Vegetarian Capsule

Servings Per Container: 90

Amount Per Serving	% Daily Value
Astragalus Extract (TA-65®) 25 mg	*

* Daily Value not established.

DIRECTIONS:

As a dietary supplement, take one (1) capsule daily, or as directed by your health care practitioner.

STORAGE:

Keep out of reach of children. Store at temperature up to 30 C (86 F). Protect from heat, light and moisture. Do not use if seal is broken.

DOES NOT CONTAIN:

Yeast, dairy, eggs, gluten, corn, soy, wheat, sugar, starch, salt, preservatives, artificial colors, flavors, or fragrances.

WARNING:

If you have or think you may have any serious disease, consult your health care practitioner before using this product. For adults only.



References

1. Armanios M, Blackburn EH. The telomere syndromes. *Nature Reviews Genetics*. 2012;13:693-704.
2. Blackburn EH, Epel ES. Comment: Too toxic to ignore. *Nature*. 2012;490:169-171.
3. Salvador L, Singaravelu G, Harley CB, Flom P, Suram A, Raffaele JM. A Natural Product Telomerase Activator Lengthens Telomeres in Humans: A Randomized, Double Blind, and Placebo Controlled Study. *Rejuvenation Research*. December 2016. 16(5).
4. Jaskelioff M, et al. Telomerase reactivation reverses tissue degeneration in aged telomerase-deficient mice. *Nature*. 2011;469:102-107.
5. Sahin E, DePinho RA. Linking functional decline of telomeres, mitochondria and stem cells during ageing. *Nature*. 2010;464:520-528.
6. Armanios M, Blackburn EH. The telomere syndromes. *Nature Reviews Genetics*. 2012;13:693-704.
7. Fernandez ML, Thomas MS, Lemos BS, DiMarco DM, Missimer A, Melough M, Chun OK, Murillo AG, Alyousef HM, Medina-Vera I. TA-65, A Telomerase Activator improves Cardiovascular Markers in Patients with Metabolic Syndrome. *Current Pharmaceutical Design*. 2018;24,1-7.
8. Singaravelu G, Harley CB, Raffaele JM, Sudhakaran P, Suram A. Double-Blind, Placebo-Controlled, Randomized Clinical Trial Demonstrates Telomerase Activator TA-65 Decreases Immunosenescent CD8+CD28- T Cells in Humans. *OBM Geriatrics*. 2021 vol. 5, issue 2.

Additional references available upon request

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