

# Intelligent Remedies, Inc.

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## Product Information Sheet

### TeleMax Longevity Formula



Telemax - Longevity formula for your DNA, so you (Do Not Age) is a telomerase-creating natural plant extract that not only stops the degradation of telomeres but rebuilds them and reverses cellular senescence (cell death). Youthful cells create youthful vitality. Telomeres are the protective caps found at the ends of your chromosomes that protect our genetic information during cellular division. For our bodies to heal and function properly, cells must divide to produce new cells to replace old, worn-out cells. Telomeres allow our cells to divide without damaging or scrambling the cells' genetic information. A great analogy for telomeres, is that they are like the plastic tips on shoelaces, as they keep chromosome ends from tangling and fraying. When we are born, our telomeres are at their longest. With every cell division throughout the course of our life, our telomeres lose a bit of their DNA. With age and accumulated exposures to various sources of oxidative stress throughout our lifetimes, telomeres gradually shorten, until the cell cannot replicate. This shortening process acts as an aging clock counting down the remaining life of the cell. At a certain point, chromosomes in the cell reach a critical length and can no longer be replicated. When this occurs, the cell enters into a state of growth arrest, known as "cellular senescence," which is the equivalent of aging. Cellular senescence is a primary driver of the aging process, which links cellular damage with the larger, anatomical effects of aging. Senescent cells do not directly cause aging, but

instead have a cumulative effect leading to larger, more visible consequences of tissue breakdown, and over time, the signs and symptoms of old age - sagging, wrinkled skin, decreased muscle mass, weakened immunity, etc. This mechanism explains how microscopic changes to our trillions of cells slowly manifest in the gradual, almost invisible process of aging. Senescent cells differ from their younger counterparts.

Cells that contain chromosomes with telomeres approaching a critically short length undergo changes that result in further damage to the organism. Whereas young cells secrete proteins that maintain healthy, functioning tissue, cells approaching senescence begin to secrete inflammatory cytokines that break down these proteins.

**Astragalus membranaceus** contains life-prolonging compounds for human use and is "associated with a significant age-reversal effect in the immune system, in that it led to declines in the percentage of senescent cytotoxic T cells and natural killer cells after six to twelve months of use". Harley, C. B.; et al. (2011). Astragalus root is known for its effects on telomerase, the shortening of telomeres (resulting from such factors as stress and aging). Thus, short telomeres result in chromosome instability.

**Salix alba.** A research group screened 37 different plant extracts to see what effect they might have on slowing aging and extending life. Willow bark was found to be the most potent life extension substance ever found. A specific extract of white willow bark (*Salix alba*) is the most potent longevity - extending pharmacological intervention ever described in scientific literature. In testing, the white willow bark extract increased the average chronological lifespan of yeast by 475 percent and the maximum chronological lifespan by 369 percent.