

# Extended|Longevity

## Pinetonal™

### Product Information



**Pinetonal Formula** is a Pineal Gland supporting synergistic herbal analog formulation of six (6) plant species known to increase melatonin, pineol, zinc and selenium, included are phytotherapeutic extracts of: *Pistacia vera*, *Scutellaria baicalensis*, *Passiflora incarnata*, *Panax quinquefolius*, *Elitaria cardamomum*, *Cinnamomum verum*.

The pineal gland is a unique organ that synthesizes melatonin as the signaling molecule of natural photoperiodic environment and as a potent neuronal protective antioxidant. A functional pineal gland is necessary for preserving optimal human health. Melatonin, along with its metabolites, have been known to significantly reduce the oxidative stress burden of aging cells or cells exposed to toxins. Known as the sleep hormone, melatonin also has antioxidant, anti-inflammatory, antiapoptotic, and many other crucial properties. In mammals, this multitasking indolamine is synthesized in the pineal gland in a circadian manner in response to the photoperiodic information received via the retino-hypothalamic pathway. It is directly released into the bloodstream, where it is distributed to all tissues. The pineal gland regulates the cyclic production of the hormones of our body by producing melatonin, and as we age it produces less and less. The disappearance of the nocturnal peak of melatonin, is a specific sign that the organism is aging and with it the deterioration of the

hormonal control of our essential functions. It is necessary to reverse this trend in order to maintain melatonin production, helping to recover and maintain the pineal gland at the state in which it was during youth (between 15 and 20 years of age). The nocturnal peak of melatonin is produced by the Pineal Gland between one and three a.m., Since the pineal gland produces melatonin only at night, giving your body Pinetonal at night, protects and rests the Pineal Gland. Therefore, the Pineal Gland is able to regenerate and maintain itself in a youthful state producing molecules that regulate the entire hormonal neuroendocrine system, resulting in the normalization of immunological, metabolic and endocrine functions, thus slowing down and potentially reversing aging.

***Pistacia vera***, is rich a source of natural plant-based melatonin. 3 mg of melatonin can be found in 18 Pistachio nuts. ***Scutellaria baicalensis***, inhibited aggregation of neuronal amyloidogenic proteins inducing dissolution of amyloid deposits. It stimulates brain tissue regeneration, inducing differentiation of neuronal precursor cells.

***Passiflora incarnata***, has antioxidant, antiparkinsonian, and memory enhancing activity. It contains multiple bioactive metabolites such as, flavonoids (like, chrysin that show CNS depressant activity, amino acids (like, GABA), and harmala alkaloids (reversible monoamine oxidase-A inhibitor).

***Panax quinquefolius***, significantly extended life span and extended life span via modulation of multiple longevity assurance genes, including genes involved in insulin signaling and stress response pathways.

***Elitaria cardamomum***, the highest sources of plant-based zinc. extracts of cardamom may be effective against a variety of bacterial strains that contribute to fungal infections.

***Cinnamomum verum***, Cinnamon activates the insulin signaling pathway, anti-oxidative pathway and serotonin signaling for its lifespan prolonging effect.

**Pinetonal** is uniquely extracted from select organic herbs using organic cane alcohol and deep ocean mineral water, as the extraction solvent. Utilizing advanced all-glass apparatus **Pinetonal** undergoes hours of reflux extraction that applies heat and ethanol to enhance the bioavailability of the resultant extraction.

- **Highly bio-available due to heat and alcohol reflux extraction**
- Made from the extraction of **organic-sourced herbs** .
- **Organic**, Non-GMO, Gluten free
- Extracted with **Maui-grown organic cane alcohol** and deep ocean mineral water