

## Immune Senescence Protection Formula Overview and Details

Think of your immune cells as bouncers at a night club. They control who gets in, who gets kicked out and who can't enter ever again. But over time, our immune system begins to decline, a process called immune senescence. This makes it harder for immune cells to do their job. So we developed an innovative formula to help combat immune senescence.

*Immune cells are like security guards. They say who's in, who's out and who's banned. However, our immune system declines over time.*

### **Immune Senescence Protection Formula™ Benefits**

- Inhibits immune senescence by supporting an already-healthy ratio of naïve-to-memory T cells
- Promotes youthful immune response by stimulating immune cell development & activity
- Encourages the body's first line of defense by promoting natural killer (NK) cell response
- Supports bone marrow health & longevity



## What is pu-erh tea?

Pu-erh tea is made from the same plant as black and green tea and is rich in polyphenols and other bioactive molecules that support immune health.



## Why did we add reishi mushroom extract?

Reishi mushroom contains compounds that boost immune cell function and other immune factors that serve as your body's first line of defense.

### Know your immune cells

The three ingredients in this formula focus on encouraging the healthy function of three types of immune cells: naïve T cells, memory T cells and natural killer (NK) cells. Naïve T cells attack new invaders. Memory T cells attack previously known invaders. And NK cells function as your

body's first responders. Cistanche, reishi mushroom and pu-erh tea extracts support them in different ways.

11.7% increase in NK cell activity and a 20.2% improvement in the ratio of CD4 to CD8 cells, an indicator of youthful, healthy immune response. <sup>7</sup>

### **Reishi mushroom inhibits immune senescence**

Pre-clinical research indicates that reishi mushrooms may help inhibit the factors of immune senescence and promote longevity.<sup>8,9</sup> This species is packed with polysaccharides, triterpenes and other compounds that boost the function of hematopoietic stem cells, T cells and immune factors that serve as your body's defense, thus inhibiting immune senescence. <sup>8,10</sup>

### **Pu-erh tea extract supports immune balance**

Pu-erh tea is made from the same plant as black and green tea. But this kind of tea is a little different: it's rich in polyphenols and other bioactive molecules that support immune health.

In a pre-clinical study, pu-erh extract produced a 7% increase in NK cells and a 10% increase in naïve T cells. In the same study, pu-erh tea extract promoted healthy bone marrow function, which helps rebuild peripheral immune cell components.<sup>11</sup>