

KIDNEY • LUNGS • IMMUNITY • HORMONES

Cordyceps Extract Improves Kidney Function and Immunity

CordycepsQi

Highest Potency Available: Adenosine (0.5%), Cordycepin (0.5%), Polysaccharides (0.5%), adenine, uracil, guanine, thymine deoxyriboside, uracil, deoxyriboside, 18 different amino acids (8 essential), polypeptides, mannitol, protein, organic acids, different micronutrients (P, Se, K, Ca, Mg, Mn, Fe, Na, Cu, Zn, Al, Si, Cr, V, Ni, Sr, Ti and Mo), Vitamins (B1, B2, B12, E & K), ergosterol, superoxide dismutase.

- ↓ **Creatinine, ↓ BUN, ↓ Proteinuria**
- **Regenerates and repairs endothelial cells of the renal tubule**
- ↑ **Cellular immunity and phagocytosis**
- **Stimulates bone marrow hematogenesis function**
- ↑ **SOD and glutathione peroxidase in liver**
- **Inhibits liver inflammation and fibrosis**
- **Regulates hormones, increases libido**



Cordyceps Extract blocks C3b receptor binding to the immune complement (IC) to prevent Liver Cirrhosis and Kidney Problem

Red blood cells have C3b receptors that bind to ICs. When a virus infects kidney glomeruli or liver cells, the body produces antibodies, which have excess ICs. These ICs accumulate in kidney glomeruli or liver cells by binding to RBCs and kidney or liver changes (fibrosis, cirrhosis, kidney failure) occur. Cordyceps prevents the binding of the C3b receptor to the IC, allowing recovery of kidney and liver function.



Cordyceps Extract improved Respiratory Conditions

Cordyceps Extract enhances both kidney function (↑Hb, ↑Alb, ↓BUN, ↓Creat) and cellular immunity (↑CD₄/CD₈) in chronic renal failure patients, reducing the risk of secondary infection.

Cordyceps Extract improved symptoms of Asthma, Coughing, Phlegm, Sinusitis, and Nasal Allergy.



CS-4 strain of Cordyceps sinensis, is a new hybrid strain that is capable of producing high yields of adenosine and cordycepin. CordycepsQi has all the benefits of the traditional Cordyceps; in addition, the presence of Whole Tibetan Wild Cordyceps and cordycepin which gives it the extra immune support most health practitioners are looking for.

What is cordycepin?

Cordycepin, or 3'-deoxyadenosine, is a nucleoside analog and a transcription chain terminator. When cordycepin is introduced to cells undergoing DNA replication, it produces a defective DNA that triggers cells to undergo apoptosis (programmed cell death). However, we believe that threaded with Whole Tibetan Wild Cordyceps would be more potent than a single agent. We believe that the synergistic effects of Cordyceps polysaccharides, adenosine, cordycepic acid, and cordycepin would be much greater than those achieved by the use of cordycepin alone.

Anti-Aging Studies:

- 1. Cellular ATP:** improves sexual function and traditionally used for fatigue.
- 2. Hepatic system:** activates Kupffer cell function, increases SOD and glutathione peroxidase in liver, raises plasma albumin, inhibits inflammation and liver fibrosis.
- 3. Cardiovascular system:** inhibits thrombus formation, hypotensive, mildly inhibits platelet aggregation, vasodilation, reduces heart rate, reduces arrhythmia induced by aconitine, hypolipidemic.
- 4. Immune system:** modulates cellular immune function, inhibits humoral immune hyperfunction, prevent inhibition of NK cells by cyclophosphamide, protects helper T-cells from immunosuppression effects of prednisolone acetate and cyclophosphamide, prolongs allograft survival time, increase spleen weight.
- 5. Endocrine system:** increases corticosteroid production (differently than ACTH), stimulates bone marrow hematogenesis function.
- 6. Malignant cells:** inhibits Ehrlich ascites carcinoma, Meth A fibrosarcoma, K562, Jurkat, Wm-1342, HL-60 and RPMI-8226 cell lines; promotes differentiation.

Fundamental studies on cordycepin:

- 7. Anti-viral:** inhibits the replication of western equine encephalitis virus, herpes simplex virus, and influenza virus.
- 8. Anti-bacterial:** inhibits growth of Colstridium spp. without adverse effects on the growth of Bifidobacterium spp.
- 9. Anti-fungal:** inhibits Candida albicans and Candida krusei.
- 10. Immune regulatory:** up-regulates interleukin-10 production and inhibits interleukin-2 production.
- 11. Apoptotic:** induces apoptosis in ADA-inhibited TdT-positive leukemia cells.
- 12. Radiation damage enhancement:** inhibits repair of X-ray induced DNA damage.

Potential Applications:

- As an anti-aging supplement which improve almost all organ functions and the quality of life.
- Protection liver and kidney from toxic drugs.