

# ABOUT FOREVER SERIES

## What is ageing?

Ageing is a multifactorial process that causes a steady functional deterioration in cells, tissues, and organs. It remains an unsolved question in the medical world. Progressive and harmful alterations in the entire body may result from ageing, a complex molecular process fueled by several molecular pathways and biochemical events that are impacted by the interaction of numerous genetic and environmental factors.

## What is FOREVER?

FOREVER is a line of six anti-ageing formulations, based on Cellular Repair Complex CRC11 reinforced with other active ingredients. Each of formulation is working as anti-ageing agent due to CRC11, and additional ingredients are working to enhance:

- immune system
- brain, cognition
- nervous system
- cardiovascular system
- musculoskeletal system
- skin, hair and nails

## What is Cellular Repair Complex CRC11?

Cellular Repair Complex CRC11 consists of 11 active ingredients with strong anti-ageing functions:

- Liposomal astragalosides, berberine, curcumin, Epigallocatechin-gallate (EGCG), gingerols, ginsenosides, quercetin, resveratrol, and silymarin
- Phytosomal extracts of Angelica sinensis and Salvia miltiorrhiza

## How does Cellular Repair Complex CRC11 work?

Cellular Repair Complex CRC11 is working by multiple pathways:

- Regulation of telomeres and telomerase
- Regulation of sirtuins (SIRT6)
- Regulation of mammalian target of rapamycin (mTOR)
- Regulation of AMPK (AMP-activated kinase)
- Regulation of IGF-1
- Free radical scavenging
- Resistance to DNA damage

Regulation of these pathways can lead to increased longevity and overall health. By targeting multiple pathways, the body is better equipped to combat aging and disease.

Additionally, the regulation of these pathways can also improve metabolic function and increase cellular energy production. This comprehensive approach to health and longevity can have far-reaching benefits for overall well-being.

**WHILE IT IS IMPOSSIBLE TO STOP AGING,  
IT IS PERFECTLY VIABLE  
TO SLOW DOWN THE PROCESS OF AGING.**



# FOREVER AG1

## MAIN APPLICATION:

Active anti-aging complex based on Cellular Repair Complex CRC11, fortified with beta-glucan, spermidine, and vitamin E. The FOREVER AG1 complex is aimed at slowing down the aging process in patients with a weakened immune system.

## INGREDIENTS:

- Cellular Repair Complex CRC11
- Phytosomal beta-glucan
- Phytosomal spermidine
- Liposomal vitamin E

**Beta-glucans** are polysaccharides composed of glucose units linked by  $\beta$ -glycosidic bonds. Beta-glucans are recognized by pattern recognition receptors (PRRs) on immune cells, such as Dectin-1 and complement receptor 3 (CR3). Activation leads to enhanced phagocytosis by macrophages and neutrophils, increased production of cytokines and chemokines, stimulation of natural killer (NK) cells, and T-cell responses.

**Spermidine** is a polyamine involved in cellular metabolism and proliferation. Spermidine induces autophagy, the cellular process for degrading and recycling cellular components. Autophagy contributes to cellular homeostasis, the removal of damaged organelles and proteins, and the regulation of immune cell function. Autophagy induced by spermidine may rejuvenate immune cells, particularly T cells.

Eight fat-soluble substances make up **vitamin E**: four tocopherols and four tocotrienols. By acting as an antioxidant and eliminating free radicals, vitamin E keeps lipids, proteins, and DNA from being oxidatively damaged. By affecting T-cell development and proliferation, as well as cytokine production and antibody responses, vitamin E influences immunological function.

### AVAILABLE FORMS

**CAPSULES #00**

### PACKING FORMS

**30 CAPSULES**



# FOREVER AG2

## MAIN APPLICATION:

Active anti-aging complex based on Cellular Repair Complex CRC11, fortified with huperzine A, nicotinamide riboside (NR), and vitamin B12. The FOREVER AG2 complex is aimed at slowing down the aging process in patients with weakened brain functions, signs of Alzheimer's disease, or cognitive decline.

## INGREDIENTS:

- Cellular Repair Complex CRC11
- Liposomal huperzine A
- Nanomicronized nicotinamide riboside (NR)
- Liposomal vitamin B12

**Huperzine A** inhibits acetylcholinesterase (AChE), the enzyme that breaks down acetylcholine, a neurotransmitter crucial for learning and memory. Huperzine A reduces neuronal cell death by antagonizing N-methyl-D-aspartate (NMDA) receptors and acts as an antioxidant, reduces oxidative stress in neurons, modulates inflammatory pathways that may contribute to neurodegeneration, improves memory and learning.

**Nicotinamide riboside (NR)** is a precursor of nicotinamide adenine dinucleotide (NAD<sup>+</sup>). NAD<sup>+</sup> is essential for cellular respiration and ATP production. NAD<sup>+</sup> supports mitochondrial health, crucial for neuronal energy demands, enhances mitochondrial function and biogenesis in neurons, modulates levels of neurotransmitters influencing mood and cognition.

**Vitamin B12 (cobalamin)** is a water-soluble vitamin with a complex structure containing a cobalt atom. Vitamin B12 is essential for the formation and maintenance of myelin sheaths around neurons. Adequate B12 levels are associated with better memory and cognitive performance. Vitamin B12 deficiency can lead to neurological symptoms like memory loss, confusion, and even dementia.

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# FOREVER AG3

## MAIN APPLICATION:

Active anti-aging complex based on Cellular Repair Complex CRC11, fortified with ergothioneine, fisetin, and GABA. The FOREVER AG3 complex is aimed at slowing down the aging process in patients with neurological ailments.

## INGREDIENTS:

- Cellular Repair Complex CRC11
- Phytosomal ergothioneine
- Liposomal fisetin
- Liposomal gamma-aminobutyric acid (GABA)

**Ergothioneine** is a naturally occurring amino acid derivative containing a sulfur atom. It acts as a scavenger of reactive oxygen species (ROS), protects cells from oxidative damage, stabilizes mitochondrial function, protects against neurotoxicity, reduces neuronal damage induced by toxins like  $\beta$ -amyloid peptides, and preserves mitochondrial function, crucial for neuronal survival. It protects dopaminergic neurons from oxidative stress-induced damage in Parkinson's disease.

**Fisetin** is a flavonol, a type of polyphenol with a structure similar to quercetin. It scavenges free radicals and upregulates endogenous antioxidant enzymes, inhibits pathways like NF- $\kappa$ B, and reduces the production of pro-inflammatory cytokines, promotes the expression of neurotrophic factors like Brain-Derived Neurotrophic Factor (BDNF) and induces apoptosis in senescent cells, improves memory and learning, reduces neuronal loss, and inhibits aggregation of neurotoxic proteins like tau and  $\alpha$ -synuclein.

**Gamma-aminobutyric acid (GABA)** is the primary inhibitory neurotransmitter in the central nervous system. GABA modulates stress and anxiety, reduces excitotoxicity, protects neurons from damage due to excessive glutamate activity, and enhances sleep by promoting relaxation and reducing neural activity.

### AVAILABLE FORMS

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# FOREVER AG4

## MAIN APPLICATION:

Active anti-aging complex based on Cellular Repair Complex CRC11, fortified with astaxanthin, coenzyme Q10, and niacin. The FOREVER AG4 complex is aimed at slowing down the aging process in patients with cardiovascular ailments.

## INGREDIENTS:

- Cellular Repair Complex CRC11
- Liposomal astaxanthin
- Liposomal coenzyme Q10 (CoQ10)
- Liposomal niacin (vitamin B3)

**Astaxanthin** is a red-orange carotenoid pigment belonging to the xanthophyll family. It is a potent free radical scavenger; it protects lipids, proteins, and DNA from oxidative damage, inhibits pro-inflammatory mediators such as cytokines and C-reactive protein, reduces oxidation of LDL cholesterol, preventing atherosclerotic plaque formation, enhances nitric oxide production, and improves vascular relaxation and blood flow.

**Coenzyme Q10** is a lipid-soluble benzoquinone with a long isoprenoid side chain. It protects cell membranes and lipoproteins from oxidative damage, maintains membrane fluidity and function, improves endothelial nitric oxide availability, promotes vasodilation, and reduces mortality in heart failure patients. CoQ10 supplementation can reduce systolic and diastolic blood pressure.

**Niacin** inhibits hepatic synthesis of very-low-density lipoprotein (VLDL) and apolipoprotein B-100, reduces LDL cholesterol and triglycerides, increases HDL cholesterol. Niacin causes peripheral vasodilation, reduces oxidative stress and inflammation in vascular tissues.

### AVAILABLE FORMS

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# FOREVER AG5

## MAIN APPLICATION:

Active anti-aging complex based on Cellular Repair Complex CRC11, fortified with calcium, vitamin D3, and vitamin K2. The FOREVER AG5 complex is aimed at slowing down the aging process in patients with musculoskeletal ailments.

## INGREDIENTS:

- Cellular Repair Complex CRC11
- Nanomicronized coral calcium
- Liposomal vitamin D3
- Liposomal vitamin K2

**Calcium** is the primary mineral component of bones and teeth. Calcium participates in the dynamic process of bone formation (osteoblast activity) and resorption (osteoclast activity). Adequate calcium intake is associated with higher Bone Mineral Density (BMD).

**Vitamin D3**, or cholecalciferol, enhances intestinal absorption of calcium and phosphorus, facilitates the incorporation of minerals into the bone matrix, and modulates genes involved in cell proliferation, differentiation, and immune function. Vitamin D3 improves muscle strength, reducing fall risk in the elderly.

**Vitamin K2** acts as a cofactor for the carboxylation of osteocalcin, a protein essential for binding calcium to the bone matrix. It directs calcium to bones and teeth while inhibiting deposition in arteries and soft tissues, influences genes involved in bone formation and inhibition of bone resorption. Vitamin K2 supplementation increases BMD, improves bone microarchitecture and reduces the risk of fractures. Vitamin K2 works synergistically with vitamin D3 to enhance bone health.

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# FOREVER AG6

## MAIN APPLICATION:

Active anti-aging complex based on Cellular Repair Complex CRC11, fortified with alpha lipoic acid, L-glutathione, and vitamin C. The FOREVER AG6 complex is aimed at slowing down the aging process, and promote healthy skin, hair and nails.

## INGREDIENTS:

- Cellular Repair Complex CRC11
- Liposomal alpha lipoic acid
- Liposomal L-glutathione
- Liposomal vitamin C

**Alpha-lipoic acid (ALA)** is a naturally occurring organosulfur compound derived from octanoic acid. ALA functions as a universal antioxidant, being both fat- and water-soluble, scavenges reactive oxygen species (ROS) and reactive nitrogen species (RNS), regenerates oxidized forms of antioxidants like vitamin C and vitamin E. ALA reduces signs of skin aging by decreasing oxidative stress and inflammation.

**L-Glutathione** is a major intracellular antioxidant that neutralizes free radicals, conjugates with toxins for excretion, inhibits tyrosinase activity, and switches melanin production from eumelanin (darker pigment) to pheomelanin (lighter pigment). Glutathione reduces hyperpigmentation, decreases oxidative stress, enhances resistance to UV-induced damage, and slows skin aging.

**Vitamin C** neutralizes free radicals and regenerates vitamin E, stabilizes cross-link collagen fibers, supports skin barrier integrity and immune cell function, and reduces UV-induced skin damage. Vitamin C increases collagen synthesis, improves skin elasticity, reduces wrinkles, inhibits melanin production, and reduces hyperpigmentation. It also plays a key role in wound healing and helps protect against environmental stressors like pollution and sun exposure. Adequate intake of vitamin C is essential for overall skin health and function.

### AVAILABLE FORMS

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