



RESCOVIN®



BOTANICAL EXTRACTS MANUFACTURER

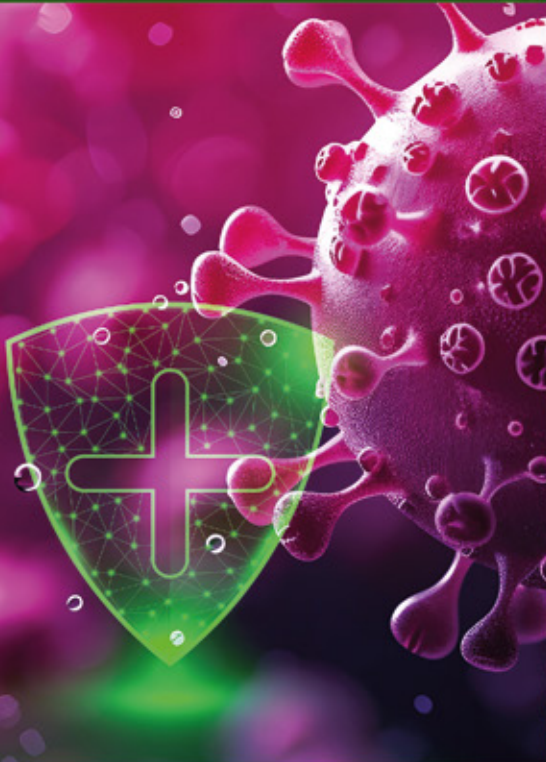
IMMUNITY SUPPORT

ORIGINAL COMPOSITION OF STANDARDIZED EXTRACTS

- *Echinacea purpurea* (L.) Moench | Echinacea
- *Aronia melanocarpa* (Michx.) Elliot | Aronia berry
- *Lonicera caerulea* L. var *kamtschatica* | Haskap berry

Stimulates the immune system for antiviral defense.

Prevents or reduces the frequency of upper respiratory tract infection episodes.



Echinacea purpurea (L.) Moench



Lonicera caerulea var. *kamtschatica*



Aronia melanocarpa (Michx.) Elliott

- REDUCES THE RISK OF SYMPTOM OCCURRENCE
- ALLEVIATES INFLAMMATION
- REDUCES OXIDATIVE STRESS MARKERS
- LEADS TO A SIGNIFICANT INCREASE IN ENERGY AND PHYSICAL STRENGTH



rescovin.com

What is RESCOVIN[®]?

RESCOVIN[®] is a preparation based on precisely standardized plant extracts with scientifically confirmed biological potential. It focuses on utilizing the immunoregulatory and antiviral properties of plant extracts. Thanks to the precise standardization of active ingredients, **RESCOVIN[®]** ensures consistent efficacy and action coherence. The blend contains extracts from three plants in strictly defined proportions:

- *Echinacea purpurea* (L.) Moench. root and herb,
- *Aronia melanocarpa* (Michx.),
- *Lonicera caerulea* L.

Who is RESCOVIN[®] intended for?

RESCOVIN[®] is designed for adults who experience symptoms such as:

- frequent and recurrent respiratory infections,
- declining immunity with age,
- weakened immune system following infections,
- active infections with influenza or coronavirus.

What makes RESCOVIN[®] unique?

Plant extracts are rich in polyphenolic compounds, vitamins, and minerals. They have immunomodulatory and antioxidative properties crucial for respiratory diseases, aiding in the prevention and treatment of viral infections and are promising in preventing and treating coronavirus infections.

To create **RESCOVIN[®]**, we selected ingredients with broad-spectrum antiviral and immunomodulatory action. The blend includes extracts standardized for: anthocyanins (HPLC), polyphenols (UV), and chicoric acid (HPLC).

Benefits of Aronia extract:

- Aronia extract is rich in polyphenols, anthocyanins, and derivatives of caffeic acid.
- Many studies have found that aronia berries exhibit strong inhibitory activity against various types of infections, attributed to their potent antioxidative components.
- Quercetin in aronia berries is evaluated for anti-SARS-CoV-2 activity in several clinical studies, one of which demonstrated its potential therapeutic role in the early stages of COVID-19 infection.
- Aronia has shown effectiveness *in vitro* and *in vivo* against various influenza virus subtypes, including strains resistant to oseltamivir.
- Cyanidin-3-O-galactoside and ursolic acid from aronia berries exhibit potential anti-infective properties.
- Extracts from aronia berries show antimicrobial activity against foodborne strains of *Escherichia coli*, *Staphylococcus aureus*, and *Streptococcus pyogenes*.

Benefits of Echinacea extract:

- Numerous studies have shown that *Echinacea Purpurea* enhances innate immunity by stimulating neutrophils, macrophages, granulocytes, and natural killer cells.
- Echinacea has antiviral effects, exhibiting maximum activity on recurring infections and is used in the prevention of infections.
- Alkylamides in echinacea bind to cannabinoid receptors, modulating the immune response in viral infections.
- Chicoric acid present in echinacea has confirmed antiviral activity against RSV and SARS-CoV-2.

Benefits of Haskap berry extract:

- Haskap berries have been found to possess antioxidative and anti-inflammatory properties. A study of the chemical composition and antioxidative activity of eight varieties of honeysuckle berries, including *Lonicera caerulea* L., demonstrated their high antioxidative activity.
- Phytochemicals from Haskap berries have strong antioxidative, anti-inflammatory, and antiviral properties.
- Since the 1980s, the antiviral activity of *Lonicera caerulea* L. berries, such as anti-RSV, anti-HIV, anti-HSV, anti-PRV, and anti-NDV, has been studied and proven.
- Essential oils and polyphenol-rich extracts from Haskap berries show antibacterial activity.

Clinical studies

The composition of **RESCOVIN**[®] is supported by research under the CovidAron project: "Natural support for the body's immune system as a way to counteract the effects of the Sars-CoV-2 virus." POIR.01.01.01-00-1206/20. The composition of **RESCOVIN**[®] has been filed for patent protection in Poland under application numbers P. 446422 and P.444627: "Pharmaceutical composition supporting the immune system before and during upper respiratory tract infections."

In vitro studies confirm that **RESCOVIN**[®] is a potent component in the treatment of viral infections. **RESCOVIN**[®] offers a multifaceted approach in combating infections caused by beta-coronaviruses, including:

- impeding the virus's entry into host cells,
- enhancing the body's antiviral defense,
- mitigating harmful inflammatory states,
- protecting against oxidative stress and hypoxia.

All the above mechanisms contribute to the effectiveness of **RESCOVIN**[®] in treating beta-coronavirus infections, such as SARS-CoV-2. In summary, the results of clinical studies indicate that:

- **RESCOVIN**[®] blocks the adsorption of viruses onto host cells,
- **RESCOVIN**[®] may enhance the body's natural healing forces in the early stages of infection,
- **RESCOVIN**[®] induces the host's response at the early stage of infection and mitigates harmful inflammation at later stages,

Results suggest that **RESCOVIN**[®] alleviates or prevents the harmful effects of hypoxia caused by lung damage after an inflammatory state induced by the SARS-CoV-2 virus, **RESCOVIN**[®] has shown a strong inhibitory effect on the replication of the beta-coronavirus before and after infection in HCT-8 cells, **RESCOVIN**[®] at a concentration of 150 µg/mL reduces the replication of the VSV virus (vesicular stomatitis virus) almost to zero, demonstrating its antiviral properties.

Clinical trail

„Evaluation of the clinical effectiveness and safety of the plant extract mixture M3 (RESCOVIN[®]) in adult patients with increased susceptibility to viral and/or bacterial upper respiratory tract infections.”

The study aimed to assess the clinical effectiveness and safety of **RESCOVIN**[®] in areas such as:

- Preventing or reducing the frequency of episodes of upper respiratory tract infections during peak illness periods – autumn/winter,
- Reducing the severity or duration of symptoms associated with upper respiratory tract infections,
- Stimulating the immune system for antiviral defense, and impact on oxidative stress.

The results of the clinical studies demonstrated the remarkable impact of **RESCOVIN**[®] on both the frequency and symptoms of upper respiratory tract infections. **RESCOVIN**[®]:

- reduces the risk of symptoms during and up to 60 days after supplementation,
- mitigates inflammatory states,
- reduces indicators of oxidative stress,
- results in a significant increase in energy and physical strength during use and after a 2-month observation period.

Discussion of results:

C-reactive protein (CRP) is a marker of inflammation in the body in a blood test. Isoprostanes are a group of prostaglandin compounds that arise from the reaction of free radicals with arachidonic acid, including with arachidonic esters in phospholipids. They are widely recognized as reliable biomarkers of oxidative stress. **RESCOVIN**[®] reduced isoprostane levels by 31% and CRP levels by 50%.

The reduction in serum CRP and isoprostane levels signifies a systemic anti-inflammatory action, potentially contributing to the overall state of health. Concurrently, increased production of TNF- α and IL-6 in PBMCs suggests targeted activation of immune cells, promoting a strong defense against viral infections.

Source: AronPharma sp. z o.o.

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