

Characteristics and properties of the products from conifer green foliage of «Solagift» Ltd

№	Substance, composition	Characteristics and composition	Properties	Conducted research
1.	<p>Bioeffective «Cell sap of Siberian fir» (Bioeffective I)</p>	<p>100% natural cell sap of fir needles having a subtle fir aroma. Liquid substance with a degree of solid residue of 2-3%. Contains a complex of nutrients in the proportions found in nature.</p> <p>Composition:</p> <ul style="list-style-type: none"> • Vitamin C • Carotene (provitamin A) • Flavonoids and polyphenols • Maltol • Macro- and microelements (iron, sodium, potassium, calcium, zinc, magnesium, manganese) <p>Maltol is a powerful natural antioxidant, which is contained in a complex with iron and is well digested. Maltol is pharmacologically similar to taxifolin.</p>	<p>1. Impact on working capacity ✓Has a strong tonic and stimulating effect ✓Improves physical and mental performance ✓Increases resistance to stress, prevents fatigue, accelerates the recovery process in the body</p> <p>2. Immunostimulating action ✓Strengthens the immune system ✓Has an anti-inflammatory effect for respiratory diseases</p> <p>3. Effect on the blood system ✓Increases hemaglobin and erythrocyte content</p> <p>4. Anti-stress action ✓Increases body resistance to stress and psycho-emotional tension</p> <p>5. Antioxidant activity ✓Shows strong antioxidant activity protecting the body from free radicals.</p> <p>6. Antitoxic properties ✓Shows toxic effect to various toxicants. ✓Reduces toxicity of alcohol</p>	<ol style="list-style-type: none"> 1. Research institute of Hygiene (Novosibirsk) – acute and chronic toxicity. 2. «Research Center» (Novosibirsk) – antagonist activity towards various microorganisms. 3. Municipal children’s hospital (Tomsk) – increase of hemoglobin level in iron-deficiency anemia. 4. Children’s polyclinic №1 (Tomsk) – decrease of number of ARD in kindergartens. 5. Medical Center «Longa Vita» (Tomsk) – general health improving and tonic action. 6. Research Institute of Cardiology (Tomsk) – cardio protective properties, increase of physical performance. 7. Research Institute of Pharmacology (Tomsk) - anti-inflammatory, anti-toxic, protection from stress, anti-hypoxic properties, and increase of physical performance. 8. Siberian State Medical University (Tomsk) – antioxidant action, normalization of biochemical indices of fatigue. 9. Institute of Human Ecology, Siberian Department of RAS (Kemerovo) – immunostimulating, anti-inflammatory, hemostimulating and tonic action

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2.	<p>Bioeffective «Oil-ethereal complex of Siberian fir» (carbon dioxide extract) (Bioeffective E)</p>	<p>Live balanced natural compound containing only natural biologically active substances.</p> <p>Composition:</p> <ul style="list-style-type: none"> • Essential oil • Vitamin E • Carotene, Maltol • Phospholipids • Sterols • Camphor • Complex of organic acids • Macro- and microelements (phosphorus, sodium, potassium, calcium, zinc, magnesium, manganese, iron, iodine, copper) <p>It is a natural, ecologically pure product, having a strong fir aroma, due to which it has a deodorizing effect. The CO₂-extract has a stronger and more pleasant natural aroma than its analogues, obtained by water-steam distillation method, as it doesn't have so called smell of boiled product subsequent upon destruction of the components of the raw material.</p>	<p>Properties in external use</p> <ul style="list-style-type: none"> ✓ It has antiseptic properties helping to purify the indoor air during the seasonal peak incidence of URTI. ✓ Stimulates the immune system increasing resistance of the mucous membranes to infections and inflammation. ✓ It has an antibacterial effect and stimulates the regeneration reducing the time of abrasion, scratch and cut healing and prevents their infection. ✓ It reduces flaking and itching of the skin and also rash in psoriasis and dermatitis. ✓ It reduces inflammation, edema, pain and bleeding gums, is the prevention of periodontitis. ✓ It helps to reduce pain in joints and spine. ✓ It eliminates edema, increases joint mobility, stimulates blood circulation in the limbs. ✓ It is effective for bruises, strains, sprains, ligament tendon injuries and hematomas. ✓ It an excellent agent for relaxing and soothing, relieving fatigue and restoring of physical efficiency. ✓ It is a natural relaxant in case of fatigue, stress, nervous excitement and muscle tension, improves general state and mood. ✓ It normalizes biological rhythms (periods of sleep and wakefulness) helps to stabilize blood pressure. 	<ol style="list-style-type: none"> 1. Research Institute of Hygiene (Novosibirsk) – skin-irritating and sensitizing effect when applied externally. 2. Research Institute of Hygiene (Novosibirsk) – acute and chronic toxicity in case of intragastric route.. 3. «Research Center» (Novosibirsk) – antagonistic activity toward various microorganisms. 4. Research Institute of Hygiene (Novosibirsk) – anti-inflammatory activity. 5. «Clinic of Aesthetic Medicine» (Tomsk) – evaluation of the effectiveness in the complex treatment of seborrheic dermatitis. 6. «Tomsk Regional Dermatovenereologic Clinic» (Tomsk) – evaluation of the effectiveness in the treatment of psoriasis 7. Children's polyclinic №1 (Tomsk) – reduce of incidence of acute respiratory infections in kindergartens. 8. Dental Clinic «Elixir» (Tomsk) – anti-inflammatory, antibacterial, healing effect in prevention and treatment of periodontitis. 9. Research Institute of Balneology and Physiotherapy (Tomsk) – anti-inflammatory action in restorative treatment of patients with chronic urethroprostatitis and pathospermia. 10. Research Institute of Balneology and Physiotherapy (Tomsk) – anti-inflammatory action in restorative treatment of chronic inflammatory diseases of upper airways.

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3.	<p>Polyprenol concentrate (Bioeffective R) (pharmaceutical substance and substance for biologically active additive)</p>	<p>Polyprenol concentrate (PP) for pharmaceutical products – not less 95% purity, for biologically active additive – 85–92% .</p> <p>It is an oily liquid without impurity inclusion. The color is light orange to reddish orange. It has a specific taste and smell.</p>	<p>1. Hepatoprotective action ✓It restores damaged membranes of hepatocytes, facilitating regeneration of the liver. ✓Protects the liver from toxic substances (alcohol, drugs, etc)</p> <p>2. Activation of antioxidant protection ✓it shows a strong antioxidant activity protecting the body from free radicals.</p> <p>3. Normalization of blood lipid profile ✓reduces cholesterol level ✓reduces the risk of atherosclerosis</p> <p>4. Immunostimulating action ✓stimulates generation of natural interferon</p> <p>5. Antitumour action ✓reduces volume and mass of tumour ✓reduces the number of metastases and the total area of metastasis ✓Reduces toxic action of chemotherapy on healthy cells improving their effectiveness.</p> <p>6. Neuroprotective action -has neuroprotective action (protection of cerebrum, protection of the peripheral nervous system);</p>	<p>1. Research Institute of Cardiology (Tomsk) – antistress, anti-ulcer action</p> <p>2. Research Institute of Oncology (Tomsk), Research Institute of Flu RAMS (St- Petersburg) – antitumor activity, immune stimulating and antiviral action</p> <p>3. St- Petersburg Chemical Pharmaceutical Academy, Research Institute of Cardiology – hepatoprotective properties.</p> <p>4. Research Institute of Toxicology– hemostimulating and radioprotective effect;</p> <p>5. Skvortsov-Stepanov Mental hospital №3 (St- Petersburg) – use for dementia of Alzheimer's type and chronic alcoholism</p> <p>6. Research Institute of Hygiene (Novosibirsk) – wound healing activity and strengthening of capillaries</p>

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4.	<p>Coniferous chlorophyll-carotene paste (CGNC) (Bioeffective A)</p>	<p>It is a product containing an amount of biologically active substances extracted from the conifer green foliage. The paste is a thick homogenous pasty mass of dark green colour with a specific fir aroma. It is possible to create a stable aqueous emulsion.</p> <p>Composition:</p> <ul style="list-style-type: none"> • Chlorophyll and its derivatives • β-carotene and other carotenoids, • Vitamin E • Sterols • Volatile production • Macro- and microelements • Waxy and volatiles, salts of fatty and resin acids 	<p><u>Properties in internal use :</u></p> <ul style="list-style-type: none"> ✓ tonic effect ✓ general health improving effect and immunostimulation ✓ Has antiviral properties ✓ Effective for prevention and the treatment of flu, URTI and other viral infections ✓ Has antibacterial and anti-fungal properties ✓ Shows an anti-inflammatory and wound healing action ✓ Has a probiotic action ✓ Increases the number of red blood cells and hemoglobin in the blood ✓ Has an antiatherosclerotic and hypolipidemic action ✓ Shows an antitoxic activity, facilitates the removal of heavy metals and radionuclides ✓ Has an oncoprotective action <p><u>Properties in external use:</u></p> <ul style="list-style-type: none"> ✓ Has an antioxidant action ✓ Shows anti-inflammatory and wound healing properties ✓ Has an antibacterial, anti-viral and antifungal action ✓ Has a deodorizing effect 	<ol style="list-style-type: none"> 1. Research Institute of Flu RAMS (St-Petersburg) – reduce of flu virus activity, herpes virus activity, adenovirus activity when using the toothpaste «New Pearl Coniferous Balm». 2. Department of Therapeutical Stomatology ГИДУВа, Military Medical academy, I.P. Pavlov State Medical University St- Petersburg) – increase of mineralization of tooth enamel during its maturation, increase of resistance and prevention of caries development. Anti-inflammatory effect on oral mucosa and gums 3. Medical stomatological University (Moscow) - toothpastes with CGNC have a perfect cleaning and deodorizing properties effectively protect from caries and periodontities, also when using orthodontic appliances. Antioxidant action along with lichen planus and leukoplakia (oral diseases). 4. Mechnikov State Medical Academy (St-Petersburg) antibacterial, and antifungal activity. 5. Pasteur Research Institute of Epidemiology and microbiology (St- Petersburg) –Effect on Helicobacter bacteria (type Helicobacter pylori) in vitro model system. Anti-mycosis and antibacterial activity toward microorganisms of Candida and Mycoplasma types, isolated from patients with chronic urogenital pathology.

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5.	Provitamin coniferous complex VNSRC (Bioeffective V)	<p>A thick oily product of bright orange to dark red colour with slight pine smell. PP – no less 20%</p> <p>Carotenoids 0,4–0,5%</p>	<p>Polyprenols, included in the complex have a strong antioxidant effect preventing the action of free radicals which are generated in the body in big quantities. They provide skin regeneration. As polyprenols are involved in the membrane stabilization, restoration of cells and optimization of their functions such as generation of glycoprotein and enhance of the energy cell function their use for the production of cosmetic products of a new generation with a significant therapeutic and prophylactic properties is very promising.</p> <ul style="list-style-type: none"> ✓ Shows anti-inflammatory and wound healing properties, significantly accelerating regeneration of damaged tissues. ✓ Has an antibacterial and antifungal action ✓ Stimulates metabolism in skin and hair roots ✓ Has a foam effect facilitating better penetration to hard-to-reach places and better cleaning of teeth from plague. ✓ Reduces pain and bleeding of gums 	<p>As natural biologically active substances they are active components in cosmetic products of premium class for skin body and hair care. Natural coniferous complex is an active component for creating premium class cosmetic products for skin, body hair and oral cavity.</p> <p><u>Recommended dose:</u> 0,5–3 %</p> <p>Conducted research: Research Institute of Hygiene (Novosibirsk)– wound healing activity and strengthening of capillaries..</p>

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6	<p>Complex of coniferous acids – pure plant growth stimulant (Bioeffective K)</p>	<p>A thick oily product of olive to dark green colour with a slight conifer odor. It contains resin acids, salts of higher fatty acids, chlorophyll, acetylsalicylic acids, nicotine and ascorbic acids, and micronutrients.</p>	<p>Pure natural growth stimulant increasing resistance of the plants to diseases and difficult environments.</p> <p>The active substance is extracted from the green needles of Siberian silver fir.</p> <p>Growth stimulating, fungicidal and bactericidal properties.</p> <p>It has a low cost treatment of 1ha.</p> <p>It is used in more than 20 plant cultures.</p> <p>Increase of seedling.</p> <p>Promotes the following processes:</p> <ul style="list-style-type: none"> increase of herbicide activity, - reduce of stress impact on the plants -increase of growth processes and resistance to diseases. <p>Enhances ripening and crop capacity of fruit and vegetables.</p> <p>Increase of product storage life.</p>	<p>Recommended as an active component in production of safe and effective combined fertilizers for various cultures (cereals, vegetables, fruit).</p> <p>Recommended for production of children’s and dietary nutrition.</p> <p><u>Consumption</u> :</p> <p>Cereals - from 3g to 5g/ha; Vegetables - from 1,5g to 3g/ha; Fruit – from 5g to 10g/ha</p>