



BIOLOGICALLY ACTIVE COMPOUNDS EXTRACTED FROM NATURAL PRODUCTS

Application: individual compounds and compositions extracted from vegetable raw materials as well as the products of their chemical modification reveal a wide range of biological activities used in science intensive production (pharmaceutics, protectors of biological objects, etc.) and scientific research.

We have developed extraction methods and technologies for the following complex chemical compounds from renewable vegetable raw materials:

<i>Lappaconitin hydrobromide</i>	<i>Antiarhythmic of cardio activity</i>	<i>Extracted from aconite roots</i>
<i>Ursolic acid</i>	<i>Applied in cardiology</i>	<i>Extracted from sea-buckthorn and cranberries</i>
<i>Glycyrrhizic acid</i>	<i>Applied in the synthesis of anti-HIV agents</i>	<i>Extracted from licorice roots</i>
<i>Peroxidase</i>	<i>Reagent in immune-ferment analyses and diagnostics</i>	<i>Extracted from horseradish roots</i>
<i>Betuline</i>	<i>Applied in the synthesis of anti-virus preparation</i>	<i>Extracted from birch bark</i>
<i>Essential oils</i>	<i>Applied in phytotherapy</i>	<i>Extracted from herbs</i>
<i>Novosil</i>	<i>Immune- and growthstimulator of agricultural plants</i>	<i>Extracted from the needles of Siberian fir</i>
Δ^3 carene	<i>Applied in the synthesis of pirehtroid pesticides</i>	<i>Extracted from galipot of conifers</i>

Order-driven production of the compounds is organized in the pilot plant of Novosibirsk Institute of Organic Chemistry, Siberian Branch of the Russian Academy of Sciences. Extraction technologies are patented.

*N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry,
Siberian Branch of the Russian Academy of Sciences
9, Acad. Lavrentiev Ave, 630090, Novosibirsk, 90, Russia
Tel.: 8(383) 330-73-93 PhD. G.I. Schukin
Fax: 8(383) 330-97-52 E-mail: schukin@nioch.nsc.ru*