World leading producer of quality wild harvested *Rhodiola rosea*
WHY RHODIOLIFE®?

Nektium is the global market leader in the production of outstanding quality *Rhodiola rosea* extracts.

One of our founders, Dr. Zakir Ramazanov first observed the endurance enhancing effects of this powerful adaptogen when he was serving in the Russian army in Afghanistan and soon after pioneered its worldwide use.

**SUPERIOR RAW MATERIAL**

Nektium is one of a few select companies in the world that are authorized by a special permit issued by the Russian Government to export *Rhodiola rosea* from the pristine Altai Mountains in Siberia with a loyal supplier relationship that spans more than 20 years.

**GUARANTEED BIOACTIVES**

We pride ourselves on being true specialists in the production of outstanding *Rhodiola rosea* and vouch for the specified levels of Rhodiolife®’s key bioactives.

**COMPETITIVE PRICING AND FLEXIBILITY**

As we control the whole supply chain of our *Rhodiola rosea* roots, we are able to offer you competitive prices. We provide Rhodiolife® in two bioactive grades and can also standardize it to your customized specifications.

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**Rhodiolife®**

**What is Rhodiolife®?**

Rhodiolife® is Nektium’s standardized extract of *Rhodiola rosea* roots, available in two specifications: ≥ 3% total rosavins and ≥ 1% salidroside and ≥ 5% total rosavins and ≥ 1.8% salidroside.

**How does Rhodiolife® work?**

Rhodiolife® is a powerful adaptogen that produces a non-specific state of adaptation and resistance in the body to physical, emotional and environmental stress. Rhodiolife® is experiential, a distinct advantage over other adaptogens. Even a single dose provides tangible activation of mental energy and improved focus.
Nektium investigated the Central Nervous System activities of Rhodiolife® using cutting-edge neurophysiological studies such as *in vivo* functional electroencephalogram (EEG), recording of field potentials from the depth of the brain *in vivo*, and Long-Term Potentiation studies in the hippocampus.

**RESULTS**

Rapid onset, long lasting effect
Rhodiolife® ingestion resulted in a rapid onset of stimulant activity, but with beneficial effects lasting for at least five hours. The EEG signature was very similar to the signature of Caffeine, *Paullinia cupana* and *Ginkgo biloba*.

Memory
Rhodiolife® increases Long Term Potentiation in the hippocampus, related to improvements in spatial and temporal memory.

Neuroprotection
The gene modulation profile showed a significant upregulation of 3 GPCR-genes, suggesting improvements in spatial and temporal memory.

**CLINICAL STUDIES**

There have been many studies on various extracts and formulations of *Rhodiola rosea* that demonstrate benefits in diverse models of physical and psychological stress.

**RESULTS**

Protection of skeletal muscle
In 36 healthy volunteers Rhodiolife® protects against physical exercise induced muscle damage and inflammation (reduced CRP levels) and facilitates recovery after exercise.

Immune support in sport
In a study in 48 marathon runners, Rhodiolife® protects against viral infections after physical exhaustion.

Anxiety
In 10 participants, Rhodiolife® significantly improves anxiety with a reduction in Hamilton Rating Scale scores.
ACTIVE PRINCIPLES OF RHODIOLIFE®

The adaptogenic activity of Rhodiolife® is attributed to the presence of four principal active ingredients: salidroside, rosin, rosavin and rosarin. Rhodiolife® is standardized to the content of salidroside and the content of the total rosavins (rosin, rosavin, and rosarin).

PRODUCT FEATURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Botanical origin</td>
<td>Rhodiola rosea (roots)</td>
</tr>
<tr>
<td>Cultivated or wild</td>
<td>Wild-crafted in Altai region of Siberia</td>
</tr>
<tr>
<td>Cropping pattern</td>
<td>Rotation of wild-harvesting areas</td>
</tr>
<tr>
<td>Appearance</td>
<td>Fine powder</td>
</tr>
<tr>
<td>Pack size</td>
<td>25kg</td>
</tr>
<tr>
<td>Shelf life</td>
<td>3 years</td>
</tr>
<tr>
<td>Taste</td>
<td>Astringent</td>
</tr>
<tr>
<td>Solubility</td>
<td>3%: Practically insoluble</td>
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<tr>
<td></td>
<td>5%: Freely soluble</td>
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<tr>
<td>Recommended serving</td>
<td>Rhodiolife® 3%: 100-300mg twice a day</td>
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<tr>
<td></td>
<td>Rhodiolife® 5%: 100-250mg twice a day</td>
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<tr>
<td>Quality</td>
<td>GMO free, BSE/TSE free, allergen free, DNA barcoding, full traceability</td>
</tr>
<tr>
<td>Product certification</td>
<td>Kosher, Halal</td>
</tr>
<tr>
<td>Available products</td>
<td>Rhodiolife® 3%: total rosavins ≥ 3% salidroside ≥ 1%</td>
</tr>
<tr>
<td></td>
<td>Rhodiolife® 3% Sports Grade: total rosavins ≥ 3% salidroside ≥ 1%</td>
</tr>
<tr>
<td></td>
<td>Rhodiolife® 5%: total rosavins ≥ 5% salidroside ≥ 1.8%</td>
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REFERENCES


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Nektium Pharma SL holds GMP certification (ES19/85835) and FSSC 22000 Food Safety System Certification (ES19/B6276) by SGS