

SEROCYBIN[®]

MODULATING MOOD WITH THERAPEUTIC MICRODOSE STACKS

SEROCYBIN[™] is a therapeutic microdosing botanical stack developed to modulate our serotonergic, dopaminergic, glutamatergic & ECS systems, re-establishing the Microbiota-Gut-Brain Axis (MGBA) & having an ultimate outcome of homeostasis.

PRIMARY INDICATIONS: Mood & Major Depressive Disorder

PROTOCOL: Cycle - 4 Days On/ 3 Days Off

DOSING: 2 - 550mg Capsules

SCHEDULE: Pre-Clinical Trials Q1 2024

SEROCYBIN[™] COMPOUND SC002.1 - Thai Golden Teacher & Enigma Psilocybin Cubensis, Psychobiotic Lacticaseibacillus (Lactobacillus) Paracasei PS23[™], Saffron (Crocus Sativus) Extract, Shilajit Fulvic & Humic Acid Mineral Complex, Cannabis Sativa (Hemp) CBGA Extract, Organic Lemon Balm Extract (Melissa Officinalis), Organic Griffonia Simplicifolia Seed Extract - 5-hydroxy-L-tryptophan (5-HTP), Mucuna Pruriens Seed Extract (15% L-DOPA), Organic PEA (Phenylethylamine), NADH (A Biologically Active Form Of Vitamin B3 (Niacin), Organic Bamboo Silica.



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An&a Biosciences LLC | Ontario Oregon 97914

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Thai Golden Teacher & Enigma Psilocybin Cubensis - Psilocybin (with Psilocin as its major constituent, also known as 4-hydroxy DMT, a tryptamine alkaloid), a psychedelic & serotonin 2A receptor (5-HT_{2A}) agonist, may be associated with antidepressant effects. Psychedelic stimulation of 5-HT_{2A}, a G-protein-coupled receptor (GPCR), has shown potential as an anxiolytic & antidepressant therapy.

*[*A large study recently published in the journal Scientific Reports that microdosing psilocybin resulted in greater improvements in mental health and mood than in individuals who did not engage in microdosing.](#)*

Psychobiotic Lactobacillus (Lactobacillus) Paracasei PS23™ - Lactobacillus Paracasei PS23™ may improve cognitive function by re-establishing the microbiota-gut-brain axis (MGBA). PS23™ supports the two-way connection between our enteric (intestinal) and central nervous systems. Resulting health benefits include:

- Balances dopamine (motivation) and serotonin (mood).
- Replenishes BDNF (brain-derived neurotrophic factor) for memory and cognition.
- Boosts mitochondria function to fight adverse effects of aging.
- Helps maintain muscle strength and increases protein uptake.
- Reduces cortisol (stress) levels throughout the body.
- Lowers inflammation, raises antioxidants and strengthens immune function.
- Improves GI function and healthy gut microbiota.

Saffron (Crocus Sativus) Extract - Saffron extract might inhibit serotonin reuptake in synapses. Inhibiting synaptic serotonin reuptake keeps serotonin in the brain longer, thereby enhancing its positive effects while combating depression. The possible anti-depressant activity of saffron bioactive compounds (crocin & safranal) could be mainly through inhibiting serotonin reuptake & the inhibition of dopamine & norepinephrine reuptake.

Shilajit Fulvic & Humic Acid Mineral Complex - Shilajit is a blackish-brown powder/resin obtained from the high mountain rocks of the Himalayan mountains between India & Nepal. It is a natural phytocomplex with potential procognitive support with its more than 84 minerals, humins, humic acid & fulvic acid. Fulvic acid is the major chemical component that accounts for 60 to 80% of its nutraceutical content. Other components present in Shilajit are fatty acids, resins, albumins, polyphenols, phenolic lipids, triterpenes, sterols, aromatic carboxylic acids, coumarins, latex, gums & amino acids.

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Cannabis Sativa (Hemp) CBGA Extract - Cannabigerolic Acid (the “mother of all phytocannabinoids.”) is one of over 100 cannabinoids present in the hemp plant. CBGA is a foundational compound of the cannabis plant, one of the very basic building blocks that all cannabinoids come from. Therapeutic benefits of CBGA based on current research, include:

- Stress management.
- Alleviating anxiety and depression.
- Better sleep.
- Epilepsy relief.
- Enhanced cognitive function.
- Diabetes complications reduction.
- Anti-inflammation.

Organic Lemon Balm Extract (Melissa Officinalis) - Lemon Balm, a member of the mint family, is considered a calming herb. It was used as far back as the Middle Ages to reduce stress and anxiety, promote sleep, improve appetite, and ease pain and discomfort from indigestion.

- Lemon Balm is a potent antioxidant that protects your brain cells from free-radical damage & acts as a neuroprotectant.
- It affects brain levels of acetylcholine (ACh), improving memory & cognition.
- Reduces stress. One-way lemon balm does this is to promote GABA, a glutamate inhibitor in your brain. It raises brain levels of the neurotransmitter GABA by inhibiting the enzyme GABA transaminase - this has a major effect on mood regulation.

Organic Griffonia Simplicifolia Bail Seed Extract - 5-hydroxy-l-tryptophan (5-HTP) - Griffonia Simplicifolia is a shrub native to West Africa. Its seeds contain a chemical called 5-hydroxytryptophan (5-HTP). 5-HTP works in the brain & central nervous system by increasing the production of the chemical serotonin. Serotonin can affect sleep, appetite, pain, and mood.

Mucuna Pruriens Seed Extract (15% L-DOPA) - is a popular Indian medicinal plant & powerful aphrodisiac which has long been used in traditional Ayurvedic medicine. Mucuna Pruriens contains a high concentration of L-DOPA - Dopamine itself has very low bioavailability & can not cross the blood-brain barrier, L-DOPA is readily transported into the central nervous system (CNS) and is converted into dopamine in the brain by the enzyme DOPA decarboxylase. *Excess production/ conversion of dopamine can suppress serotonin production.

Organic PEA (Phenylethylamine) - PEA also known as beta-phenylethylamine or 2-phenylethylamine, is a central nervous system stimulant. Normal amounts of PEA produced in the body support healthy energy levels as well as focus, well-being, happiness, & high-level cognitive function. Studies suggest that depression is associated with lower levels of phenethylamine & that a deficit of PEA may be one cause of depression.

NADH (A Biologically Active Form Of Vitamin B3 (Niacin)) - NADH is a dietary supplement that is an active form of vitamin B3 that increases energy levels, improves mental clarity, & supports healthy brain function, enhances cognitive performance & promotes neurogenesis.

Organic Bamboo Silica - Silica can strengthen the connective tissues surrounding the brain & spinal cord, it can also help protect our cognitive health & may raise levels of the brain chemical serotonin. Silica from Organic Bamboo extract has been shown to improve memory performance in animal studies.