SELF-MICRO EMULSIFYING
MULTI-DELIVERABLE SYSTEM

MICROB-MANAGER PARA-MAX

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Microb-Manager Para-Max is a broad-spectrum anti-microbial formula designed to support the body's natural defenses against bacterial, viral, fungal, and parasitic pathogens.

This innovative formula blends botanicals and natural compounds with targeted immune and detoxification support. Advanced delivery via Quicksilver Scientific's patent-pending Self Micro-Emulsifying Multiple Delivery System (SMEMDS) enhances absorption and systemic bioavailability of key ingredients, including artemisinin, molybdenum, and a proprietary blend of propolis extract, clove bud oil, cinnamon bark oil, lemongrass oil, olive leaf extract, oregano oil, thyme oil, turmeric oleoresin, and garlic oil.

Supplement Facts

Serving Size: 2 Capsules — Servings Per Container: 30

	Amount Per Serving	% Daily Value
Molybdenum (as Ammonium molybdate)	150 mcg	333%
Artemisinin (from artemisia annua)	40mg	**
Proprietary Blend	360mg	**
Propolis extract, Clove bud oil, Cinnamon bark oil, Lemongrass oil, Olive leaf extract (Olea europaea) (standardized to 70% Oleuropein), Oregano oil, Thyme oil, Turmeric oleoresin, Garlic oil		

****Daily Value not established**

Other Ingredients: Plant-derived cellulose capsule, tocofersolan, medium chain triglycerides, highly purified phospholipids

EDUCATION

Botanical compounds have been used for centuries to support the body's natural defenses.[1] These dynamic plant constituents are known for their broad-spectrum activity across a variety of microbial challenges, including bacteria, fungi, and other unwanted organisms, while helping to maintain a balanced internal ecosystem.[1,2]

Unlike more aggressive interventions, botanicals may support the health of the gut microbiome rather than disrupt it.[3,4] Many plant compounds can also impact biofilms, which are protective layers that make it more difficult for the body to address microbial imbalances.[5] Their synergistic nature allows for a multifaceted approach to maintaining a microbial balance and supporting immune resilience without compromising beneficial microflora.[6]

BOTANICAL COMPOUNDS AND MICROBIAL HOMEOSTASIS

Plant-derived compounds (i.e., phytochemicals), known as secondary metabolites, serve as defense mechanisms for plants and confer harmonious microbial benefits in humans.[1,7] Some research suggests that phytochemicals may help maintain microbial balance and support a healthy gut environment, including beneficial bacterial populations.[1,2,4]

Unlike conventional antimicrobials, botanical compounds may promote a favorable environment for beneficial microbes while helping the body respond to external microbial stressors.[3,6,8] Some evidence suggests they also work synergistically to support gut health, immune function, and microbiome diversity.[9] Because of their unique chemical properties and ability to support microbial balance, botanicals offer promising support for maintaining resilience and overall immune health.

IMMUNE SUPPORT DURING VIRAL CHALLENGES

Viral exposures can place significant demands on the immune system and can contribute to chronic inflammation, immune dysregulation, and gut barrier disruption.[10] Botanicals offer broad-spectrum support for anti-microbial activity and immune

resilience without disrupting the body's natural systems.

Several key botanicals, such as propolis extract, lemongrass oil, turmeric oleoresin, thyme oil, and artemisinin, have demonstrated antiviral properties.[11,12,13,14] Proposed mechanisms include inhibiting viral entry and replication, reducing pro-inflammatory cytokines, and enhancing healthy cellular responses.[15,16,17,18] These compounds may help promote a balanced immune response and overall immune readiness during periods of heightened immune demand.

SUPPORT FOR OCCASIONAL YEAST AND FUNGAL OVERGROWTH

Botanicals offer support for managing occasional fungal overgrowth, which can contribute to immune dysregulation, gut barrier dysfunction, and chronic inflammation.[19] In particular, plant compounds may be useful in cases of Candida or mold-related illness.[19,20] They exert antifungal effects by promoting a healthy balance of microbes and immune function, without disrupting beneficial microflora.[21,22,23]

Botanicals with antifungal properties include propolis extract, lemongrass oil, thyme oil, oregano oil, and cinnamon bark oil.[22,24,25,26,27] These botanicals may work synergistically to help maintain microbial balance and support a healthy inflammatory response within the gut and other tissues.

BOTANICAL INGREDIENTS TRADITIONALLY USED IN PARASITIC INFECTIONS

Plant compounds may support host-microbe symbiosis in the gut and other tissues when faced with the overgrowth of organisms.[3,6,28] Key botanicals that have been studied for their antiparasitic activity are olive leaf extract, clove bud oil, cinnamon bark oil, turmeric oleoresin, garlic oil, oregano oil, thyme oil, and artemisinin.[29,30,31,32,33,34,35]

Research suggests that plant compounds may exert antiparasitic effects through autophagy and apoptosis, membrane permeation and structural damage, disrupted metabolism, innate immune system activation, inhibition of gene expression, and reduction of pathogenic cells/organisms.[4,23,29,32,36,37] These synergistic plant compounds may help maintain a healthy internal environment, particularly during periods of microbial or immune challenge.

QUICKSILVER DELIVERY SYSTEMS®

Self Micro-Emulsifying Multiple Delivery System (SMEMDS), is a Quicksilver patent-pending technology that enhances the bioavailability of lipophilic compounds. Upon ingestion, SMEMDS rapidly emulsifies in the stomach, forming nanoparticles that easily cross cellular membranes and enter circulation. This delivery method overcomes the poor absorption typically associated with phytochemicals, ensuring faster, more effective support throughout the body.[38]

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References available at quicksilverscientific.com/microbmanagerparamaxreferences/