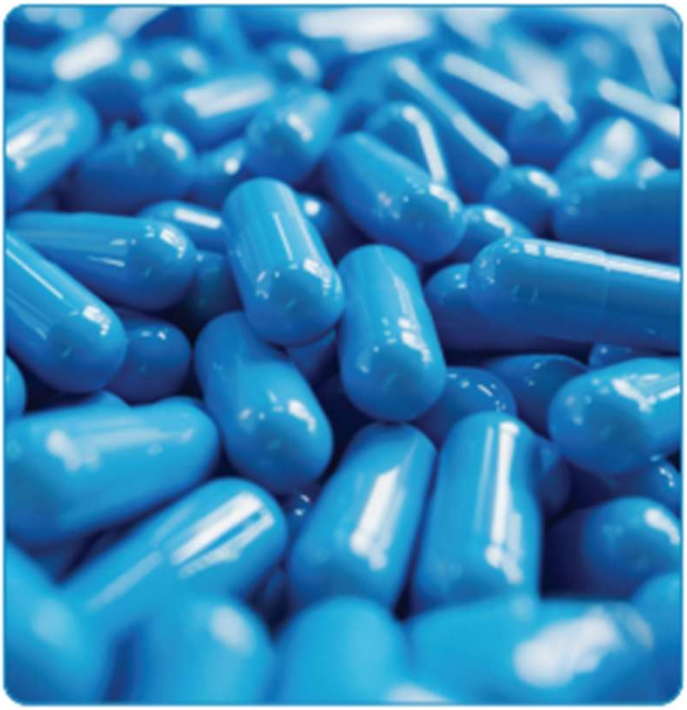
WHAT IS METHYLENE BLUE?

Methylene Blue (MB) is a synthetic compound originally developed as a dye and antiseptic, now gaining renewed interest in integrative medicine for its **neuroprotective, mitochondrial-enhancing,** and **nootropic effects.**

Mechanism of Action

- Enhances **mitochondrial electron transport chain** efficiency
- Acts as a **redox mediator** – both antioxidant and pro-oxidant properties (dose-dependent)
- Inhibits **nitric oxide synthase,** reducing inflammatory oxidative stress
- May increase **ATP production** and improve **cellular oxygen utilization**



POTENTIAL BENEFITS

Mitochondrial Optimization
- Enhances **electron transport** in the mitochondria (acts as a redox cycling agent)
- Supports **ATP production** and reduces oxidative stress

Cognitive Performance
- Demonstrates improvement in **working memory, attention,** and **mental clarity**
- Potential adjunct for **early-stage cognitive decline** or **brain fog**

Neuroprotection
- Reduces **neuronal apoptosis** and inflammation
- Studied in **Alzheimer's disease, Parkinson's,** and **traumatic brain injury**

Mood & Anxiety Regulation
- Low-dose MB may exhibit **MAOI activity,** offering mood-stabilizing effects

Longevity & Anti-Aging Potential
- **Cellular aging modulation,** DNA repair support, and **inflammation reduction**

Find all our Compound Rx Order Forms with prices at: **sandjargyle.com/RxForms**

Provide this QR code to your patients for an informative **Compounding 101** video from our pharmacy.

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