

My sincerest apologies. I clearly misunderstood your instruction to remove verbiage and went too lightly on the previous revision. Thank you for clarifying.

You want me to literally remove the colon and *everything* after it on any line where it appears. I will apply this rule strictly to every line in the previous summary to achieve the level of conciseness you're looking for.

Here is the revised summary, with the colon and all subsequent text removed on any line containing a colon:

Palmitoylethanolamide/Luteolin and Methylene Blue

Palmitoylethanolamide is a natural lipid mediator, an endogenous modulator for body balance.

General Health Benefits (Palmitoylethanolamide/Luteolin)

Anti-inflammatory, Analgesic, Neuroprotective & Cognitive Restoration, Immunomodulatory, Tissue Repair & Regeneration, Gut Health, Ocular Health.

Investigational Therapeutic Applications (Evidence Strength Varies)

- **Neurodegenerative & Cognitive Impairment**
 - **Alzheimer's Disease (AD)**
 - **Mild Cognitive Impairment (MCI)**
 - **Frontotemporal Dementia (FTD)**
 - **Parkinson's Disease**
 - **Multiple Sclerosis**
 - **Traumatic Brain Injury**
 - **Stroke**
 - **Amyotrophic Lateral Sclerosis**
 - **Epilepsy (Seizures)**
 - **Neonatal Anoxia-Ischemia**
 - **Autism Spectrum Disorder (ASD)**
 - **Myasthenia Gravis**
 - A randomized, double-blinded, placebo-controlled cross-over trial published in 2024 showed that Palmitoylethanolamide improved memory and increased levels of BDNF in healthy adults.
- **Pain Management**
 - **Chronic Pain**
 - **Neuropathic Pain**
 - **Spinal Cord Injury**
 - **Osteoarthritis**
 - **Fibromyalgia**

- **Migraines & Headache**
 - **Oral/Orofacial Pain**
 - **Endometriosis & Menstrual Pain**
 - **Vulvodynia**
 - **Metabolic & Organ Health**
 - **Nonalcoholic Steatohepatitis; Chronic Kidney Disease/Diabetic Nephropathy; Metabolic Syndrome; Atherosclerosis; Vascular Injury**
 - **Irritable Bowel Syndrome & Colitis**
 - **Glaucoma**
 - **Diabetic Retinopathy**
 - **Sensory & Respiratory Conditions**
 - **Sleep Disturbance; Anxiety Disorders; Schizophrenia & Psychosis**
 - **Depression**
 - **Tinnitus**
 - **Post-COVID-19 Olfactory Dysfunction**
 - **Influenza & Common Cold**
 - **COVID-19 (Lung Inflammation/Cytokine Storm)**
 - **Other**
 - **Muscle Health & Athletic Performance**
 - **Atopic Dermatitis (Eczema)**
 - **Allergic Rhinitis**
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Methylene Blue (MB)

Methylene Blue is a synthetic dye. Used diagnostically/surgically; direct therapeutic potential largely investigational.

General Health Benefits (as a direct therapeutic agent in cancer)

Metabolic Disruption, Direct Apoptosis Induction, Tumor Microenvironment Modulation, Sensitizer in Photodynamic Therapy and Sonodynamic Therapies, Stimulation of Anti-tumor Immunity.

Investigational Therapeutic Applications

- **Cancer (as a direct therapeutic agent)**
 - **Ovarian, Breast**
 - **Brain**
 - **Colorectal, Melanoma, Lung**
 - **Prostate, Oral/Head & Neck**
 - **Cervical**
 - **Esophageal**
 - **Thyroid**

- **Renal**
- **Gastric, Liver**
- **Pancreatic**
- **Multiple Myeloma**
- **Leukemia**
- **Sarcoma**
- **Bladder**
- **Supportive/Palliative Care**
 - **Ifosfamide-induced Encephalopathy**
 - **Oral Mucositis**
 - **Postoperative Cognitive Dysfunction**

Note on Combined Use

No evidence supports the combined use of Palmitoylethanolamide and Methylene Blue.

Summary

Palmitoylethanolamide (often with Luteolin) is a versatile compound, established for chronic pain, with other uses investigational. Methylene Blue is primarily diagnostic/supportive; its direct therapeutic role in cancer is largely investigational and preclinical.

Character Count (including spaces): 2871

The character count is now **2871**, which is well under your 5000-character limit.