



Capturing
nature's power

HTBA (HealthTech BioActives) is a global leader in Natural Flavonoids and B12 forms, creating a measurable impact on consumers' well-being by providing top class ingredients from nature.

40+ years of experience producing consumer-centric solutions in Functional Health, Pharmaceutical APIs, Taste Modulation, and Animal Nutrition.

Adhering to the highest European manufacturing standards in sustainability, quality, and supply chain.

Because there are no limits to nature when there is a team of passionate experts who know how to best harness its power.

Quality Certifications:

- FAMIQS
- FSSC 22000
- ISO-9001 / 14001
- GMP
- HACCP
- SMETA-4
- EcoVadis
- Kosher / Halal

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Product Info Sheet

MecobalActive® is HTBA's proprietary ingredient for Methylcobalamin, being a natural and bioactive form of Vitamin B12.

MecobalActive® PETS

A winning choice to boost performance
and support physical recovery



What is MecobalActive®?

MecobalActive® provides methylcobalamin in its biologically active and highly bioavailable form, supporting physical and cognitive performance through efficient cellular utilization. Its formulation contains up to 50% less water compared to conventional products on the market, which may contribute to enhanced tissue retention and reduced urinary excretion.

energy production. This supports efficient oxygen delivery to tissues, helping improve stamina and reduce fatigue.

✓ **Supports neurological function and neuronal integrity.** It plays a critical role in neurotransmitter synthesis and homocysteine metabolism, contributing to the maintenance of cognitive function and myelin integrity.

How does it work?

✓ **Optimizes energy metabolism and tissue oxygenation**, acting as an essential cofactor in red blood cell formation and key metabolic pathways involved in cellular

✓ **Contributes to gut ecosystem balance.** Provides highly bioavailable vitamin B12 required by specific beneficial bacterial strains, supporting the metabolic activity of commensal microbiota, intestinal barrier integrity, and overall digestive health.

Mechanism of action

Contributes to **efficient energy metabolism and red blood cell formation**, improving oxygen delivery to tissues.

Reduces fatigue, and enhances overall physical performance.

Healthy gut ecosystem.
Intestinal barrier integrity
Overall gut health.

Supports neurotransmitter synthesis and reduces homocysteine levels.

Provides bioavailable vitamin B12, a cofactor required by certain beneficial bacterial strains

Helps to maintain neuronal function and myelin integrity



Key Benefits

✓ **Enhanced physical performance and vitality.** Helps reduce fatigue, supports sustained physical activity, and promotes recovery in highly active animals.

✓ **Advanced cognitive support.** Contributes to the maintenance of brain function while helping regulate homocysteine levels, a factor associated with cognitive decline.

Clinical studies in humans demonstrate significant increases in maximal physical power, reduced fatigue, and improved cognitive performance, supporting the physiological relevance of these mechanisms.

✓ **Strengthened gut health.** Supports intestinal barrier integrity and helps maintain a balanced and healthy digestive environment.

References

1. <https://doi.org/10.3389/fphar.2019.01102>. MC van Campen, Klaas Riepma, & Frans C. Visser (2019). Open Trial of Vitamin B12 Nasal Drops in Adults With Myalgic Encephalomyelitis/Chronic Fatigue Syndrome: Comparison of Responders and Non-Responders.

2. <https://doi.org/10.3390/nu14071494>. Yasunari Nakamoto et al. (2022). Influences of Vitamin B12 Supplementation on Cognition and Homocysteine in Patients with Vitamin B12 Deficiency and Cognitive Impairment.

3. <https://doi.org/10.3390/nu14142825>. Yong Ge, Mojgan Zadeh & Mansour Mohamadzadeh. (2022). Vitamin B12 Regulates the Transcriptional, Metabolic, and Epigenetic Programing in Human Ileal Epithelial Cells.

An evolving market

Pet nutrition is increasingly moving towards natural, functional and science-backed solutions.

Pet owners are looking for products that support vitality, mobility and longevity, and wellbeing, especially for active and senior companion animals.

MecobalActive® PETS meets this demand with a differentiated proposition within the physical recovery and performance.

