

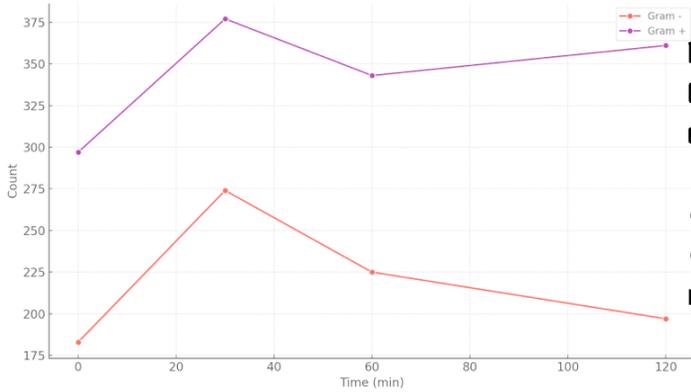
MILBOND[®]-H2O #MTX-2501-H2O

Protecting Nature's Most Vital Resource — Water.
Advanced Mineral Technology for Water Quality

MILBOND[®]-H2O is a natural mineral that neutralizes harmful compounds such as ammonia, nitrates, fluorides, heavy metals, and persistent pollutants (PFAS, PPCPs) while producing pathogenic bacteria and viruses.

Microbial Balance by Selective Pathogenic Absorption

Variation of Bacterial Count in Water as a Function of Contact Time with MILBOND[®]-H₂O



Rapid and Sustained Reduction of Gram-Negative Bacteria
Graph shows that water filtered with MILBOND[®]-H2O (1.15 g/L) achieved:

- ~20% reduction of Gram-negative bacteria immediately (183 CFU; 38%)
- ~45% reduction after 1 hour (225 CFU; 40%), while beneficial Gram-positive bacteria remained dominant (343 CFU; 60%).



Nitrate Risk & MILBOND[®]-H2O

Nitrates are common water contaminants from fertilizers, manure, and agricultural runoff. Once ingested, they convert to nitrites, which inhibit oxygen transport in blood, causing methemoglobinemia ("brown blood disease") and animal losses.

Health Effects:

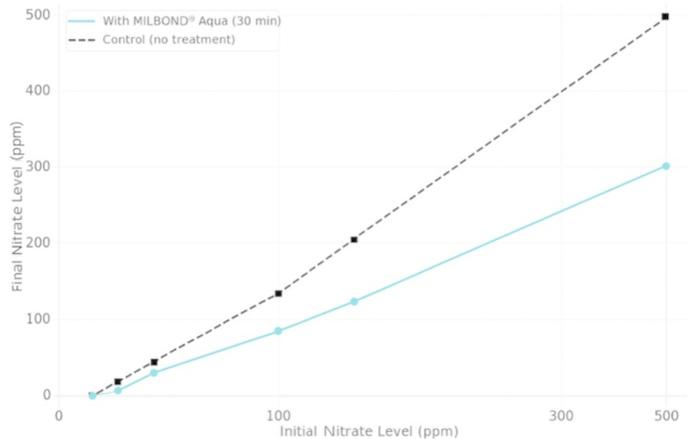
Acute: Labored breathing, weakness, blue mucous membranes, sudden death.

Chronic: Reduced growth, milk yield, fertility, and immunity; hormonal imbalance.

Most at risk: All Humans, Animals, and Plants

Even 3–5 mg/L nitrates can reduce broiler performance, while > 20 mg/L depresses feed efficiency and growth.

Scientific Validation



 **Milwhite, Inc.**

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APPROVED
by the Office of The State Chemist of Texas
License No. 111924-3
MILBOND[®]-TX



CERTIFICATE ISO 9001:2015



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Scientific Validation

- A zeolite–sodium silicate composite achieved a ~72% average reduction of PFAS and adsorption capacities of 13.6–18.3 mg g⁻¹ in batch tests (Licato et al., 2022).
- Zeolites show strong potential for fluoride removal under controlled conditions (Asare et al., 2025).
- Nearly 99.5% uptake of PFAS was reported for a specific all-silica beta zeolite under optimized lab conditions (Sheehan et al., 2023).

Applications of MILBOND[®]-H2O:

Aquaculture Systems (RAS, ponds, tanks):

Controls ammonia and nitrates; enhances pH stability and water oxygenation.

Hard Water Management:

Balances calcium and magnesium ions through controlled ion exchange, reducing scaling and improving water stability.

Animal Houses & Livestock Facilities:

Lowers ammonia emissions and odor; improves hygiene and air quality in poultry and swine housing.

Dairy & Manure Slurry Management:

Adsorbs ammonia and nitrogen compounds; decreases odor and volatilization; stabilizes slurry for land application.

Personal & Domestic Use:

Improves water clarity; reduces hardness and fluoride levels for safer small-scale use.

Wastewater Treatment:

Removes ammonium, nitrates, heavy metals, and PFAS from industrial and agricultural effluents.

Citations:

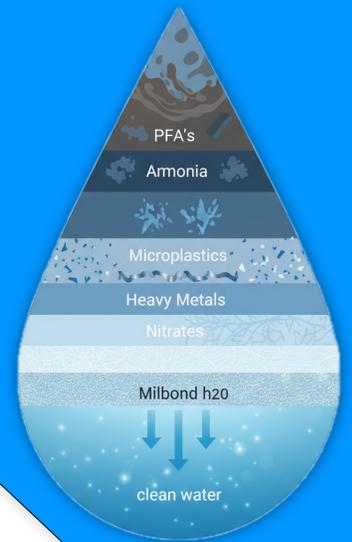
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