

ProPath<sup>®</sup>



# ProPath® Performance Minerals®

## A REVOLUTIONARY BREAKTHROUGH IN ANIMAL NUTRITION

ProPath Performance Minerals are redefining premium animal nutrition. The result of decades of scientific innovation, ProPath is an innovative line of products designed with patented performance minerals that optimize the amino acid transport system. Unlike conventional products that rely on uptake and absorption through the metal transport system, ProPath's exclusive molecule design provides unique trace mineral absorption and

metabolism, resulting in greater efficiency and efficacy, proven by animal data.

When fed as part of a well-balanced nutrition program, the essential trace minerals in ProPath support the health, wellbeing, and performance of animals.



# Exceptional Versatility for Use Across Species

## FROM LIVESTOCK TO AQUACULTURE TO COMPANION

### ProPath. Zn<sub>170</sub>

- Freshwater Fish
- Marine Fish
- 🍤 Shrimp
- 🐔 Poultry
- 🐷 Swine
- 🐶 Canine
- 🐱 Feline
- 🐎 Horses
- 🐄 Dairy Cattle
- 🐄 Beef Cattle
- 🐐 Goats
- 🐑 Sheep

### ProPath. Mn<sub>150</sub>

- Freshwater Fish
- Marine Fish
- 🍤 Shrimp
- 🐔 Poultry
- 🐷 Swine
- 🐶 Canine
- 🐱 Feline
- 🐎 Horses
- 🐄 Dairy Cattle
- 🐄 Beef Cattle
- 🐐 Goats
- 🐑 Sheep

### ProPath. Cu<sub>170</sub>

- Freshwater Fish
- Marine Fish
- 🍤 Shrimp
- 🐔 Poultry
- 🐷 Swine
  - Sows & Boars
  - Pig Starters
  - Growing & Finishing Swine
- 🐶 Canine
- 🐱 Feline
- 🐎 Horses
- 🐄 Dairy Cattle
- 🐄 Beef Cattle

### ProPath. Fe<sub>150</sub>

- Freshwater Fish
- Marine Fish
- 🍤 Shrimp
- 🐔 Poultry
- 🐷 Swine
  - Sows
  - Pig Starters
  - Growing & Finishing Swine
- 🐶 Canine
- 🐱 Feline
- 🐎 Horses
- 🐄 Dairy Cattle
- 🐄 Beef Cattle
- 🐄 Calves

### ProPath. 4

- 🐶 Canine
- 🐱 Feline
- 🐎 Horses
- 🐄 Dairy Cattle
- 🐄 Beef Cattle
- 🐐 Goats

GROWTH & DEVELOPMENT | REPRODUCTIVE PERFORMANCE | SKIN & COAT QUALITY | PAW PAD & HOOF INTEGRITY | ENERGY METABOLISM

# The Most Effective Trace Minerals on the Market

*UNMATCHED NUTRITIONAL EXCELLENCE FOR PREMIUM BENEFITS*

## **BIOLOGICAL EFFICACY**

Uniquely designed performance minerals utilizing the amino acid transport system to optimize absorption from the digestive tract, enabling unique metabolism once in circulation, and resulting in improved performance.

## **STABILITY**

The unique molecular bond is designed to maintain stability even within the harsh conditions of the gastrointestinal system, promoting maximum absorption.

## **SOLUBILITY**

Our patented amino acid complex is highly soluble, for maximum absorption and improved utilization.

## **UPTAKE & ABSORPTION**

Our breakthrough patented molecule utilizes the amino acid transport system for unique mineral uptake and absorption.

## **METABOLICALLY AVAILABLE**

Effective metabolism at the molecular level ensures that trace minerals reach the targeted organs, tissues, and enzyme systems that improve animal performance.

## **PERFORMANCE DRIVEN**

Animal studies prove that ProPath® has the highest biological efficacy for advanced animal performance.



*DESIGNED FOR SUPERIOR NUTRITION TO IMPROVE OPERATIONAL EXCELLENCE*

## **VERSATILITY**

Highly adaptable and flexible for even the most specialized diets, including conventional and wet or dry, for a variety of species.

## **SUSTAINABILITY**

Ensures maximum utilization and minimal waste for a highly sustainable choice, benefiting both your operation and the environment.

## **HIGHLY CONCENTRATED**

Patented molecular technology with no carrier provides maximum mineral content and diet density, which allows for more space in formulation and premix. Offers operational efficiencies like reduced freight and warehouse needs.



# Forging a Superior Path to Performance

ProPath® is formulated to maximize operational efficiencies, support profitability, and optimize animal nutrition and performance.

VERSATILE

STABLE

SOLUBLE

SUSTAINABLE

PROFITABLE



## Essential Trace Minerals, Exceptional Health Benefits

BENEFITS	TRACE MINERALS	BENEFIT DESCRIPTION
IMMUNE RESPONSE	Copper, Manganese, Zinc, and Iron	<ul style="list-style-type: none"> <li>Humoral immunity; antibody titers in response to vaccination</li> <li>Cell-mediated immunity</li> <li>Non-specific immunity</li> <li>Antioxidant activity to remove free radicals and protect cell membranes</li> </ul>
JOINT & SKELETON	Manganese	<ul style="list-style-type: none"> <li>Chondroitin sulfate synthesis, key to formulation, maintenance, and repair of joint cartilage</li> <li>Bone matrix development and maintenance</li> </ul>
	Zinc	<ul style="list-style-type: none"> <li>Cell division and protein synthesis for skeletal growth and repair</li> </ul>
HOOF & CLAW INTEGRITY	Manganese and Zinc	<ul style="list-style-type: none"> <li>Supports toenail and hoof hardness</li> </ul>
PAW PAD CONDITION	Manganese	<ul style="list-style-type: none"> <li>Antioxidant activity to protect cell membranes</li> </ul>
	Zinc and Copper	<ul style="list-style-type: none"> <li>Cell division to support paw pad growth and repair</li> <li>Paw pad protein synthesis; collagen, keratins, cell envelope proteins, and intercellular cementing substance</li> </ul>
REPRODUCTION	Iron and Copper	<ul style="list-style-type: none"> <li>Reproductive hormone synthesis: steroidogenesis</li> <li>Helps avoid nutritional anemia</li> </ul>
	Manganese	<ul style="list-style-type: none"> <li>Male libido</li> <li>Fetal skeletal development</li> </ul>
	Zinc	<ul style="list-style-type: none"> <li>Reproductive tract tissue integrity</li> <li>Conception rates</li> <li>Sperm maturation and quality</li> </ul>
SKIN & COAT	Manganese, Iron, and Zinc	<ul style="list-style-type: none"> <li>Epidermal (skin) cell maintenance through cell division, protein synthesis and antioxidant activity to remove superoxide radicals</li> <li>Facilitates wound healing</li> <li>Helps avoid or reduce nutritional anemia</li> <li>Development of a longer, fuller coat</li> </ul>
ENERGY	Zinc, Manganese, Copper, and Iron	<ul style="list-style-type: none"> <li>Improved health leaves more energy for activities</li> <li>Wellbeing enhanced, as health problems are minimized or reduced in severity</li> </ul>

# Essential Trace Minerals, Exceptional Health Benefits

While required only in small amounts each day, trace minerals provide the essential nutrients animals need for key metabolic functions such as growth and development, immunity, and reproduction.

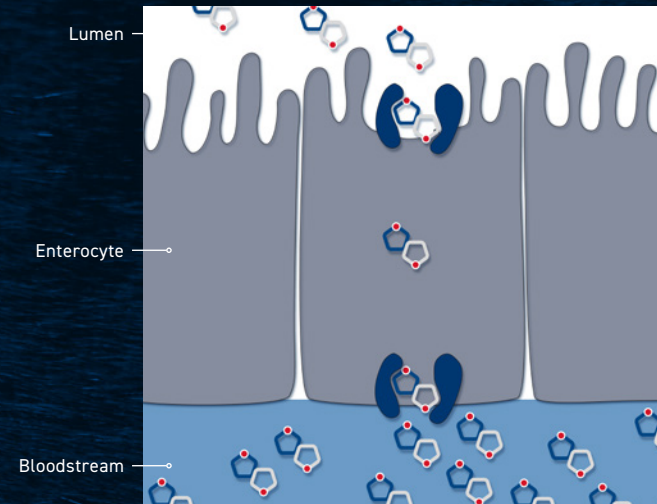
At Zinpro, we understand that healthy animals contribute to a profitable and sustainable operation and that to truly prosper, animals must receive optimal trace mineral nutrition throughout every life stage. A nutritional program built with essential trace minerals offers a lifetime of advantages that are passed along to the next generation. We call these multigeneration nutritional benefits Lifetime Performance®.

We use science-based solutions to create products with proven uptake and absorption to deliver the full benefits of trace minerals. By improving absorption and metabolism in animals, you can optimize the performance and profit of your operation.



## The Pathway to Success

BEST MINERAL ABSORPTION FOR SUPERIOR PERFORMANCE

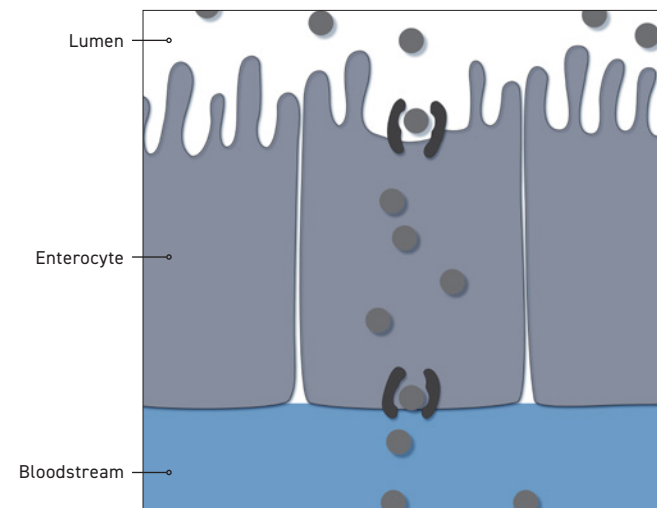


### PERFORMANCE MINERALS

*Consistent, Stable, Unique Design for Advanced Nutrition*

Zinpro Performance Minerals® are the only minerals that utilize an amino acid transport system for unique mineral absorption and metabolism. The result is a trace mineral that is more effectively absorbed into the enterocyte and released into the bloodstream, improving genetic potential and performance in animals.

Animal studies across several species have shown, conclusively, that ProPath Performance Minerals have **unique metabolism and improved performance.**



### CONVENTIONAL ORGANIC TRACE MINERALS

*Limited, Variable Absorption with Inconsistent Results*

Most conventional organic trace minerals deliver inorganic metals to the enterocyte. They are no different to the animal than sulfate, oxide, chloride, and hydroxy chloride. All of these use the inorganic transport system and are affected by antagonists.

# ProPath

DESIGNED FOR DRY FEED APPLICATIONS



**ProPath Zn 170**  
Zinc amino acid complex



**ProPath Mn 150**  
Manganese amino acid complex



**ProPath Cu 170**  
Copper amino acid complex



**ProPath Fe 150**  
Iron amino acid complex



**ProPath 4**  
Proprietary blend of zinc, manganese,  
and copper amino acid complexes, and  
cobalt glucoheptonate

# ProPath LQ

DESIGNED FOR LIQUID FEED APPLICATIONS



**ProPath LQ Zn 180**  
Zinc amino acid complex



**ProPath LQ Mn 160**  
Manganese amino acid complex



**ProPath LQ Cu 180**  
Copper amino acid complex



**ProPath LQ Fe 160**  
Iron amino acid complex



**ProPath LQ 4**  
Proprietary blend of zinc, manganese,  
and copper amino acid complexes, and  
cobalt glucoheptonate

# Why we do what we do.

*Zinpro exists to improve the wellness and performance of animals and contribute to a healthier, more sustainable world.*

At Zinpro, our innovations raise the standard of excellence in animal health and nutrition. We believe that advanced animal nutrition is at the heart of productive, sustainable, and profitable operations for our partners around the globe. For more than four decades, we've been committed to innovation, and that's why we invest in product development and peer-reviewed studies more than any other trace mineral manufacturer. Our team of leading scientists and technical experts is always breaking new ground, and our patented Performance Minerals® have opened up the next horizon in trace mineral performance. With a history of proven performance, we set the bar for the best in animal nutrition, and we are committed to exceeding our own high standards of continued innovation.

*Learn more about Zinpro Performance Minerals® at [Zinpro.com](http://Zinpro.com).*

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