

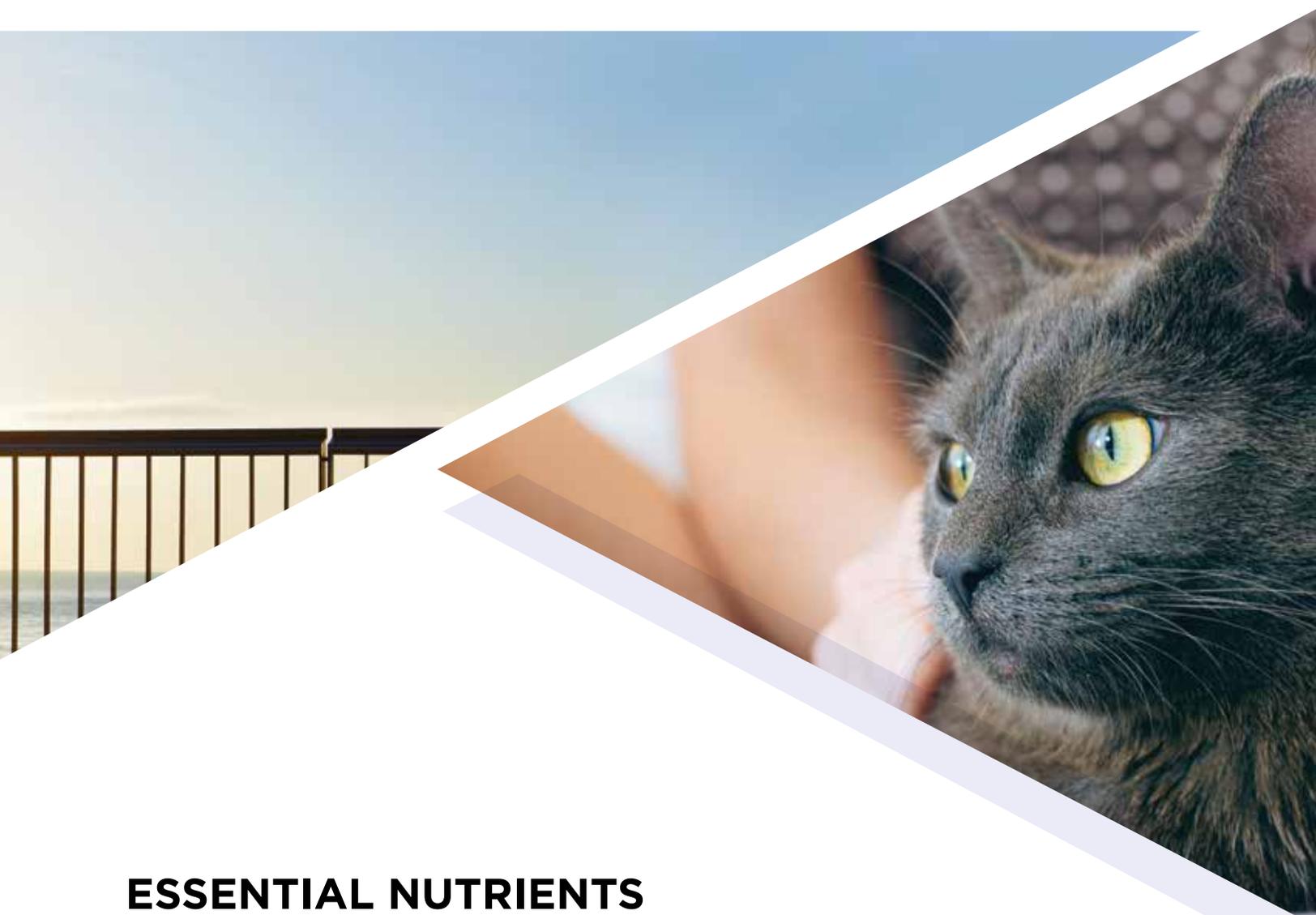


When it's Essential **To Be Exceptional**

Zinpro Performance Minerals®
for Companion Animals







ESSENTIAL NUTRIENTS FOR COMPANION ANIMALS

They're our walking partners, service pets and loyal friends. They are, in the fullest sense of the word, our companions, and that's why we at Zinpro work so hard to make sure they get the best trace minerals available for exceptional health and wellbeing.

Trace minerals, including zinc, manganese, copper, iron, iodine, and selenium, often referred to as essential micronutrients, are only required in small amounts daily however, they play a large role in numerous metabolic functions. When fed as part of a well-balanced diet, chelated trace minerals provide your life long companions with healthy benefits, including skin and coat quality, growth and development, paw pad integrity, enhanced mobility and bone strength, and energy.

With Performance Minerals® from Zinpro are in your companion animal's diet, you'll see a truly visible difference in the health and appearance of your pet.

NUTRITION YOU CAN SEE™

Zinpro Performance Minerals® are the most bioavailable chelated trace minerals on the market today that optimize the health and appearance of your pet. By selecting a pet food, treat or supplement that contains Zinpro Performance Minerals, you will see a noticeable difference in your best friend's wellbeing and happiness!

HEALTH & WELLBEING

Zinc, manganese, copper and selenium are known to enhance and support immune function, antioxidant status by removing free radicals to protect body cell membranes.

GROWTH & DEVELOPMENT

Trace minerals are essential for building strong bones and connective tissue for healthy joints in addition to promoting overall growth and a healthy development from the start.





ENERGY METABOLISM

Trace minerals are key components of energy metabolism as cofactors and enzymes optimizing the health of your pet and it shows.

SKIN & COAT QUALITY

Zinc, Copper and Manganese are key to skin health and healing skin conditions. Trace minerals are essential for a full, healthy, shiny luxurious coat of hair.

MOBILITY & BONE HEALTH

Zinc has been shown to improve skeletal soundness and mobility, manganese and copper play a vital role in bone health along with cartilage and joint maintenance and repair.

PAW PAD INTEGRITY & HEALING

Zinc, Copper and Manganese are key nutrients in keratin synthesis for paw pad integrity and health, especially in active and older pets.



AN ESSENTIAL ROLE IN COMPANION ANIMAL DIETS

When incorporated as part of a well-balanced nutrition plan, essential trace minerals deliver important benefits:

BENEFIT	TRACE MINERALS	HOW IT WORKS
Skin and Coat	Zinc, Copper, Manganese, Iron	<ul style="list-style-type: none"> • Improved skin health and integrity through improved epithelial structure and function • Improves Atopic Dermatitis skin conditions • Facilitates wound healing • Improves hair growth, coat gloss and texture • Melanin production for enriched coat color • Aids in reduced shedding and hair loss.
Paw Pad Condition	Zinc, Manganese, Copper	<ul style="list-style-type: none"> • Antioxidant activity to protect cell membranes • Cell division to support paw pad growth and repair • Paw pad protein synthesis; collagen, keratins
Immune Response	Zinc, Manganese, Copper, Selenium, Iron	<ul style="list-style-type: none"> • Humoral immunity • Cell-mediated immunity • Non-specific immunity • Antioxidant activity to remove free radicals and protect cell membranes
Joint and Skeleton	Zinc, Manganese	<ul style="list-style-type: none"> • Chondroitin sulfate synthesis, which is important for synthesis, maintenance, and repair of joint cartilage and connective tissue • Bone matrix development and maintenance • Skeletal growth and repair
Energy	Zinc, Manganese, Copper, Iron, Selenium, Iodine	<ul style="list-style-type: none"> • Carbohydrate metabolism • Cellular and whole body energetics Improved health leaves more energy for activities
Reproduction	Zinc, Manganese, Iron, Copper, Selenium	<ul style="list-style-type: none"> • Reproductive hormone synthesis: steroidogenesis • Alleviate nutritional anemia • Supports reproduction

Additional companion species info on trace minerals available upon request.

Product availability varies by country. Contact your Zinpro representative for product availability in your market.

PERFORMANCE BY DESIGN

Since our founding, Zinpro Corporation has focused solely on one thing: trace mineral nutrition. In 1971, founder Dean Anderson discovered and pioneered the patented process to bind a single zinc ion to an amino acid molecule. Called a “complex,” this discovery was significant because this simple and highly stable complex was easily absorbed and utilized by animals.

Since then, Zinpro has remained steadfast to our core principle of research and development. Now considered the most research-proven organic trace mineral products in the industry, Zinpro Performance Minerals® have been shown to be the only true Performance Minerals on the market. Every bag—each molecule, in fact—exceeds the highest industry standards.

ORIGINAL LINE | Specific amino acids for targeted benefits



combination product containing ZINPRO®, CuPLEX®, MANPRO®, and COPRO®

cobalt glucoheptonate

copper lysine complex

manganese methionine complex

zinc methionine complex

zinc methionine complex (soluble powder)

AVAILA® LINE | Highly bioavailable trace minerals



zinc, manganese, copper, and cobalt amino acid complexes

copper amino acid complex

iron amino acid complex

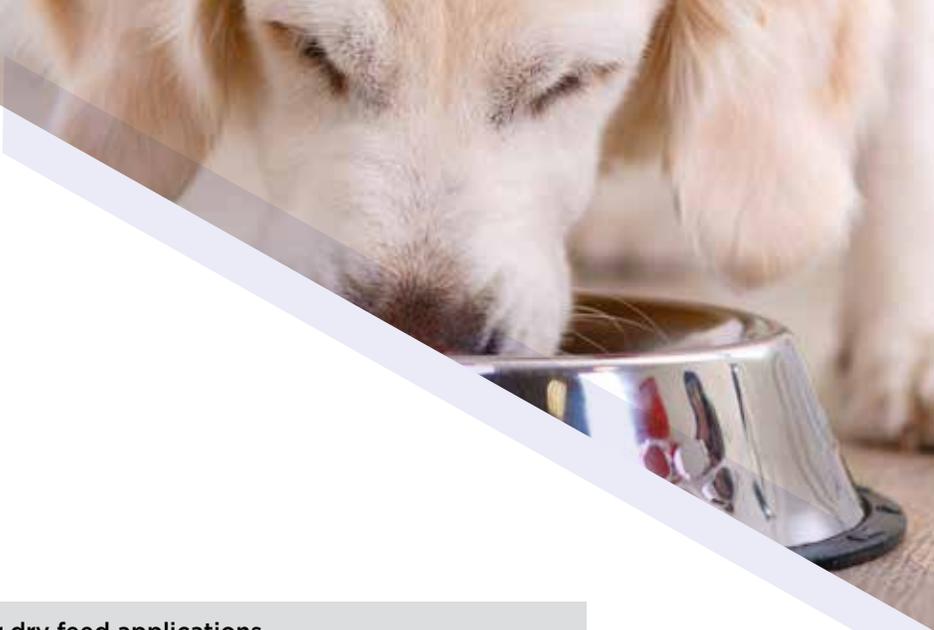
manganese amino acid complex

zinc-L-seleno-methionine

zinc, manganese, and copper amino acid complex

zinc amino acid complex

Designed and manufactured to be the most bioavailable trace minerals, Zinpro Performance Minerals benefit animals through **high absorption and utilization** while benefiting manufacturers with higher production and greater profitability.



PROPATH® LINE | Amino acids for dry feed applications



combination product containing organic zinc, manganese, copper and cobalt



copper amino acid complex



iron amino acid complex

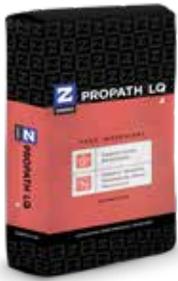


manganese amino acid complex



zinc amino acid complex

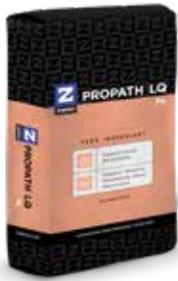
PROPATH® LQ LINE | Amino acid complexes for liquid feed applications



combination product containing organic zinc, manganese, copper and cobalt



copper amino acid complex



iron amino acid complex



manganese amino acid complex



zinc amino acid complex

NUTRITION YOU CAN SEE™

Effects of Zinpro Performance Minerals®

PAW PAD INTEGRITY

Before



After



Dog presented with hepatocutaneous syndrome resulting in footpad hyperkeratosis saw significant improvement in paw pad health after 12 weeks.

SKIN AND COAT HEALTH

Before



After



Hershey is a 9-year-old Chocolate Labrador Retriever that has a history of dermatosis & poor hair coat color. After 12 weeks of supplementation, Hershey showed significant improvement in skin and coat health.



Honey, a 12-year-old golden retriever, had developed a faded lighter coat color around her face and nose. After 12 weeks on supplementation Honey showed improvement in coat color and skin health.

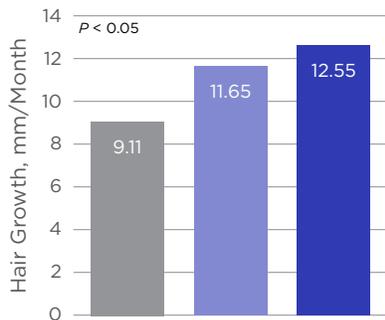


LOOKING GOOD. FEELING GOOD.

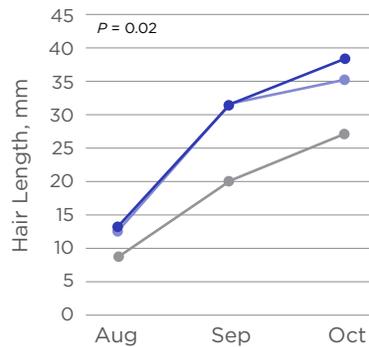
Zinpro products have shown consistent results in supporting improved skin condition and hair coat quality in multiple species. Testimonials indicate positive results observed by pet parents and multiple dermatology veterinarians.

Recent studies show that animals receiving highly available forms of trace minerals—such as those found in ProPath® Pet formulations—respond with greater hair growth rate, hair length and less shed hair than those receiving ordinary trace minerals.

Hair Growth



Hair Length



● Sulfate ● Availa Mins ● ProPath

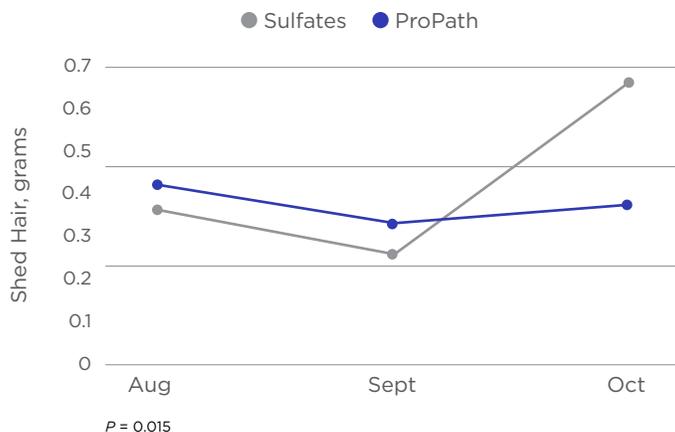
38% ↑

Faster Growth

40% ↑

Hair Length

Shed Hair Response





QUALITY, SAFETY AND TRACEABILITY

In 2016, Zinpro was named a Preferred Supplier by the National Animal Supplement Council. As a NASC Preferred Supplier, we're trusted to provide raw materials that meet and even exceed the most rigorous quality standards, and we're looked as a supplier recognized for responsible and transparent practices across the supply chain. This acceptance by NASC is another in a long line of validations from industry associations, further evidence of our commitment to leading the industry with the highest quality trace minerals for companion animals.



In addition, Zinpro proudly participates in other industry programs and certification standards, including:



ISO 9001:2008: Signifies we have put in place critical process controls for products in three vital areas: identification, traceability, and analysis and approval



OMRI (Organic Materials Review Institute): Ensures the suitability of products for certified organic production, handling, and processing



HACCP (Hazard Analysis and Critical Control Point): A food safety management system administered by the FDA



FAMI-QS (Feed Additives and PreMixtures Quality System): A code of practices covering feed additives and premixtures in Europe

Canine Trace Mineral Recommendations

Life Stage	Mineral	Zinpro Rec'd TM ppm	Zinpro Products	Expected Benefits	AAFCO ^a Total TM ppm	FEDIAF ^b ppm
All life stages	Zn	100	ProPath [®] Zn or Availa [®] Zn or ZINPRO [®] 180	Skin and coat development, growth and skeletal soundness, immune response, epithelial tissue, development, etc.	100	100
	Cu	7	ProPath [®] Cu or Availa [®] Cu	Immune response, skeletal development, improved enzyme activity, reduced anemia, and role in bone, lipid and glucose metabolism	12.4	11
	Mn	25	ProPath [®] Mn or Availa [®] Mn	Aid in skeletal development, wound healing, and enzyme activity	7.2	6.7
	Fe	90	ProPath [®] Fe or Availa [®] Fe	Avoid anemia, improve immune response and energy metabolism	88	88
	I	1.0		Improved cellular metabolism, growth and metabolic rate	1.0	1.5
	Se	0.35	Availa [®] Se ^c	Improved immune response and cellular integrity	0.35	0.4
	Cr	600 ppb	MiCroPlex ^{®c}	Improved carbohydrate, protein and lipid metabolism resulting in faster, more efficient growth		

Feline Trace Mineral Recommendations

Life Stage	Mineral	Zinpro Rec'd TM ppm	Zinpro Products	Expected Benefits	AAFCO ^a Total TM ppm	FEDIAF ^b ppm
All life stages	Zn	75	ProPath [®] Zn or Availa [®] Zn or ZINPRO [®] 180	Skin and coat development, growth and skeletal soundness, immune response, epithelial tissue, development, etc.	75	100
	Cu-Extr	12	ProPath [®] Cu or Availa [®] Cu	Immune response, skeletal development, improved enzyme activity, reduced anemia, and role in bone, lipid and glucose metabolism	15	10
	Cu-Can	7	ProPath [®] Cu or Availa [®] Cu	Immune response, skeletal development, improved enzyme activity, reduced anemia, and role in bone, lipid and glucose metabolism	8.4	
	Mn	15	ProPath [®] Mn or Availa [®] Mn	Aid in skeletal development, wound healing and enzyme activity	7.6	10
	Fe	80	ProPath [®] Fe or Availa [®] Fe	Avoid anemia, improve immune response and energy metabolism	80	107
	I	1.8		Improved cellular metabolism, growth and metabolic rate	1.8	1.8
	Se	0.3	Availa [®] Se ^c	Improved immune response and cellular integrity	0.3	0.35
	Cr	600 ppb	MiCroPlex ^{®c}	Improved carbohydrate, protein and lipid metabolism resulting in faster, more efficient growth		

^a AAFCO dog and cat food nutrient profiles based on dry matter; AAFCO, 2021: pp. 161/171; presumes an energy density of 4000 kcal ME/kg

^b FEDIAF 2021 recommendations

^c Products not currently approved for use in the United States of America



MARKS OF EXCELLENCE

Zinpro Performance Minerals® are backed by an unmatched portfolio of science-based nutrition data: we invest far more in animal performance studies than all other trace mineral companies combined. We invest far more in studies to support our performance minerals criteria, and we have more peer-reviewed publications than any other trace mineral company.

When chelated trace minerals from Zinpro Performance Minerals are fed as part of a well-balanced companion animal diet, they help improve the health and wellbeing of companion animals, with benefits including immunity, coat and skin health, growth and development, reproduction, paw integrity and energy metabolism.

OVER 50 YEARS OF EXPERIENCE

With five decades of experience in supplying superior trace mineral nutrition, Zinpro Corporation understands the unique nutritional needs of companion animals. Talk with your nutritionist to discuss the benefits of including Zinpro Performance Minerals in your pet food, treat and supplement products.



For more information:
contact your Zinpro
representative or visit
zinpro.com/companion