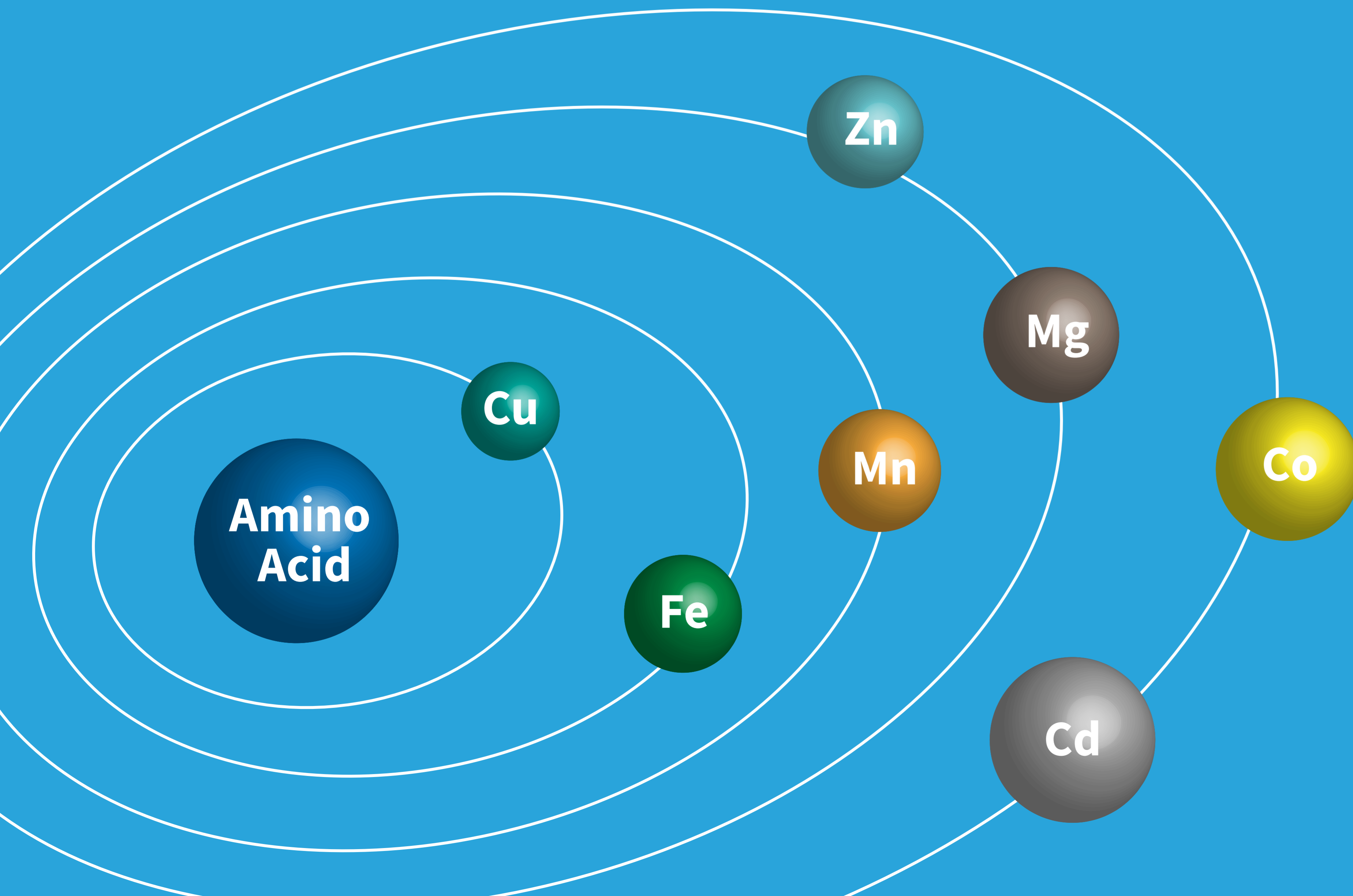


Amino Acid Chelated Minerals



Technicology & Development



Company Instruction

We focus on research, develop and produce for animal health & nutrition products, in order to reach operation aim of “Increasing product utilization to reduce application costs and improve animal production performance”, we are adopting the advanced manufacturing technique such as granulating or coating to improve the products quality and utilization without active ingredient losses, the main products including enteric coated essential oil to substitutes for antibiotics, antioxidant and heat resisting granules of vitamin & minerals premix to improve production efficiency, amino acid chelated mienrals to be easy absorbed, probiotic and enzyme preparation to improve gastrointestinal health etc.



The research and develop team of Bivigro company are consisted by well known university and senior specialist



All the products has been passed strictly clinical trials and inspections before been on the market, this activity not only compliance to our principal of “Ensure the products what we supplied has been qualify tested and provide with constantly optimum application effect”, and also make our customers can get higher- than-expected benefits by using our cost-effective products



We believe the production for high quality and useful products are rely on the standard of “raw materials, formula and production technique”, so we are consistently strive to make sure our final products are produce under the condition of high quality raw materials, excellent formula research and strictly production process

Glycine Chelated Copper 21%

Methionine Chelated Copper 16.5%

Specifications	Cu Content	Amino Acid	Moisture	Pb	As
Copper Glycine	Cu 21%min	Glycine 25%	10% max	20mg/kg max	10mg/kg max
Copper Methionine	Cu 16.5%min	Methionine 78%	10% max	20mg/kg max	10mg/kg max

Dosage (g/ton)	Poultry		Cow			Beef/Sheep	Aquatic	Swine		
	Layer	Broiler	Lactating	Dry Milk	Reserve			Piglet	Fattening	Sow
Iron Glycine	40-50	40-50	40-70	40-70	40-70	20-50	20-25	50-70	40-60	40-60
Iron Methionine	50-60	50-60	60-100	60-100	60-100	30-60	25-30	60-90	50-70	50-70

Functions

Beneficial to the synthesis of hemoglobin and maturation of red blood cells, prevent the anemia caused by copper deficiency in animals.

Features

Stable physical and chemical properties, not easy to oxidize the vitamins and related oil substances in feeds, easy to be absorbed.

Notice

Please consider the amount of amino acid contained in chelated minerals when preparing feed formulation

Fe

Glycine Chelated Iron 17%

Methionine Chelated Iron 13%

Specifications	Fe Content	Amino Acid	Moisture	Pb	As
Iron Glycine	Fe 17%min	Glycine 21%	10% max	20mg/kg max	10mg/kg max
Iron Methionine	Fe 13%min	Methionine 34%	10% max	30mg/kg max	10mg/kg max

Dosage (g/ton)	Poultry		Cow			Beef/Sheep	Aquatic	Swine		
	Layer	Broiler	Lactating	Dry Milk	Reserve			Piglet	Fattening	Sow
Iron Glycine	200-400	150-400	45-60	60-90	115-150	140-180	350-550	350-550	200-450	350-550
Iron Methionine	200-300	150-200	60-80	70-120	150-190	180-250	400-500	450-700	350-450	450-700

Functions

Improve the synthesis of hemoglobin and myoglobin in animal, improve animal growth performance and immunity

Features

Stable physical and chemical properties, not easy to oxidize the vitamins and related oil substances in feeds, easy to be absorbed.

Notice

Please consider the amount of amino acid contained in chelated minerals when preparing feed formulation

Mn

Glycine Chelated Manganese 22%

Methionine Chelated Manganese 15%

Specifications	Mn Content	Amino Acid	Moisture	Pb	As
Manganese Glycine	Mn 22%min	Glycine 20%	10% max	40mg/kg max	10mg/kg max
Manganese Methionine	Mn 15%min	Methionine 40%	10% max	30mg/kg max	10mg/kg max

Dosage (g/ton)	Poultry		Cow			Beef/Sheep	Aquatic	Swine		
	Layer	Broiler	Lactating	Dry Milk	Reserve			Piglet	Fattening	Sow
Manganese Glycine	250-300	300-350	180-210	160-180	160-180	110-140	50-100	100-150	80-100	100-150
Manganese Methionine	100-500	100-500	270-320	240-280	240-280	170-210	50-200	100-200	50-150	150-300

Functions

Provide high biological value of manganese source, to meet the animal demand for manganese element.

Features

Stable physical and chemical properties, not easy to oxidize the vitamins and related oil substances in feeds, easy to be absorbed.

Notice

Please consider the amount of amino acid contained in chelated minerals when preparing feed formulation

Zn

Glycine Chelated Zinc 21%

Methionine Chelated Zinc 19%

Specifications	Zn Content	Amino Acid	Moisture	Pb	As
Zinc Glycine	Zn 21%min	Glycine 22%	10% max	20mg/kg max	10mg/kg max
Zinc Methionine	Zn 19%min	Methionine 42%	10% max	30mg/kg max	10mg/kg max

Dosage (g/ton)	Poultry		Cow			Beef/Sheep	Aquatic	Swine		
	Layer	Broiler	Lactating	Dry Milk	Reserve			Piglet	Fattening	Sow
Zinc Glycine	200-250	150-200	280-350	190-220	220-240	130-170	150-200	250-500	200-350	200-450
Zinc Methionine	200-300	200-300	320-410	220-240	250-270	140-200	200-250	250-350	200-350	250-350

Functions

Prevent cell membrane oxidation, reduce superoxidative damage and stress, promote the growth of animals, improve production performance, meet the animal demand for zinc

Features

Stable physical and chemical properties, not easy to oxidize the vitamins and related oil substances in feeds, easy to be absorbed.

Notice

Please consider the amount of amino acid contained in chelated minerals when preparing feed formulation

Chromium Picolinate 0.2%

Methionine Chelated Chromium 0.2%

Specifications	Cr Content	Moisture	Pb	As
Chromium Picolinate	Cr 0.2%min	10% max	20mg/kg max	10mg/kg max
Chromium Methionine	Cr 0.2%min	10% max	30mg/kg max	10mg/kg max

Dosage (g/ton)	Swine		
	Piglet	Fattening	Sow
Chromium Picolinate	50-100	50-100	50-100
Chromium Methionine	50-100	50-100	50-100

Functions

Provide high biological value of chromium source, to meet the animal demand, especially for piglet and sow.

Features

Stable physical and chemical properties, not easy to oxidize the vitamins and related oil substances in feeds, easy to be absorbed.

Notice

When animals under stress states, the demand for chromium will be increased, the dosage should be appropriately increased.



Methionine Chelated Cobalt 5%

Specifications	Co Content	Amino Acid	Moisture	Pb	As
Cobalt Methionine	Co 5%min	Amino Acid 25%	10% max	30mg/kg max	10mg/kg max

Dosage (g/ton)	Poultry		Cattle/Sheep	Aquatic	Swine		
	Layer	Broiler			Piglet	Fattening	Sow
Iron Methionine	6-20	6-20	5-12	15-30	6-20	6-20	6-20

Functions

Provide high biological value of cobalt source, to meet the animal demand.

Features

Stable physical and chemical properties, not easy to oxidize the vitamins and related oil substances in feeds, easy to be absorbed.

Notice

Please consider the amount of amino acid contained in chelated minerals when preparing feed formulation

Selenium Yeast 0.2% Methionine Chelated Selenium 0.2%

Specifications	Se Content	Moisture	Pb	As
Selenium Yeast	Se 0.2%min	10% max	20mg/kg max	10mg/kg max
Selenium Methionine	Se 0.2%min	10% max	20mg/kg max	10mg/kg max

Dosage (g/ton)	Poultry		Cow			Beef/Sheep	Aquatic	Swine		
	Layer	Broiler	Lactating	Dry Milk	Reserve			Piglet	Fattening	Sow
Selenium Yeast	100-150	100-150	125-150	180-200	250-300	50-100	100-150	100-150	100-150	100-150
Selenium Methionine	150-225	100-150	125-150	180-200	250-300	50-100	100-150	100-200	100-225	150-225

Functions

Ensure that selenium can be absorbed and utilized by the animal to the maximum extent

Features

Stable physical and chemical properties, not easy to oxidize the vitamins and related oil substances in feeds, easy to be absorbed.

Notice

When animals under stress states, the demand for selenium will be increased, the dosage should be appropriately increased.

Cu
Fe
Mn
Zn
Cr
Co
Se
Amino
Acid
Chelated

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