

Product Catalog

10.81 5
B
boron

24.31 12
Mg
magnesium

39.10 19
K
potassium

40.08 20
Ca
calcium

50.94 23
V
vanadium

52.00 24
Cr
chromium

54.94 25
Mn
manganese

55.85 26
Fe
iron

63.55 29
Cu
copper


65.38 30
Zn
zinc

78.96 34
Se
selenium

95.96 42
Mo
molybdenum

HUMAN NUTRITION





Albion's deep understanding of the mineral form and our continued research has kept us on the leading edge of product development and application. Albion continuously develops groundbreaking intellectual property in the areas of:

- *sports nutrition*
- *food fortification*
- *product formulation solutions*
- *mineral nutrition for pharmaceuticals*
- *topically applied minerals in cosmeceuticals*
- *customized products for customers' specific needs*
- *new mineral molecule forms for custom applications*

*Albion's facilities are cGMP certified for
Dietary Supplements through NSF International*



*Albion is ISO 9001:2008
certified through NQA*



Boron

Albion's unique Bororganic Glycine is a hypoallergenic organo-boron form of this vital mineral.

Boron is an important trace mineral needed for healthy bones, central nervous system function, and a healthy inflammatory response. It also helps the body absorb other minerals, including calcium, magnesium, copper and phosphorus. Formulators can consider boron for supplements that support:

- Healthy bones
- Cardiovascular health
- Healthy hormone production
- A healthy inflammation response
- Healthy cellular and organ membrane function

Boron

Bororganic Glycine

Available forms

3503 Bororganic Glycine: 10% B

Delivery applications

Excellent for Use In:

- Tablets
- Foods
- Capsules
- Beverages

Certifications



40.08 20

Ca

calcium

Calcium

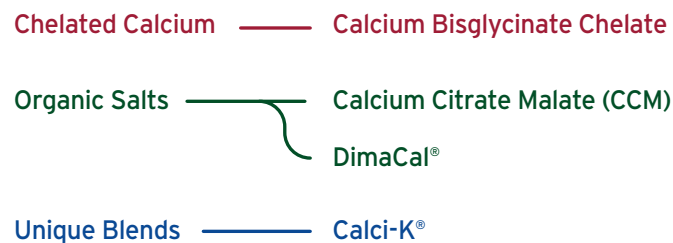
Calcium absorption is complex, but with Albion's chelated calcium products, less dietary interaction means greater absorption and increased bioavailability.

Calcium is an essential mineral for a wide range of health-promoting functions, including:

- Restful sleep
- Healthy mood
- Protecting heart health
- Supporting colon health
- Maintaining healthy blood pressure
- Building dense, healthy bones and teeth
- Supporting healthy weight management
- Transporting nutrients throughout the body

Solubility and sensory factors make certain calcium compounds more suitable for one application over another. Albion's line of patented calcium compounds has the chemical and physical properties to fit most fortification and supplement needs.

Calcium Products



Chelated Calcium

Calcium Bisglycinate Chelate

Our renowned Calcium Bisglycinate Chelate has the highest absorption rates.

This fully reacted mineral chelate is one of the most bioavailable forms of calcium. Each calcium molecule is bound to two glycine molecules through Albion's patented chelation process, transforming it into an amino acid chelate that has nearly twice the absorption rate of calcium citrate or calcium carbonate. The amino acid chelating agents promote the assimilation of the calcium into the cells, which helps facilitate the Krebs energy cycle. The chelate structure is then confirmed through FT-IR spectroscopy testing.

Available forms

- 3450** Calcium Bisglycinate Chelate Powder: 18% Ca
- 3460** Calcium Bisglycinate Chelate Taste Free: 13% Ca
- 3534** Calcium Bisglycinate Chelate Buffered: 26% Ca
- 3453** Calcium Bisglycinate Chelate Granular: 18% Ca

Delivery applications

Excellent for Use In:

- Tablets
- Capsules
- Chewables
- Powdered drinks
- Prenatal supplements
- Certain foods & beverages

Certifications



TRAACS®



Organic Salts

Calcium Citrate Malate (CCM)

Good organoleptic properties make CCM particularly well suited as a fortificant in fruit juices, bottled water, and other beverages.

Calcium Citrate Malate (CCM) is the result of a simultaneous reaction with calcium, citric acid, and malic acid in a soluble complex. Research has shown that the absorption rate for CCM is 37% in contrast with 24% for calcium carbonate. Its unique formula is well tolerated.

Available forms

4055 Calcium Citrate Malate Powder: 20% Ca

4056 Calcium Citrate Malate Granular: 20% Ca

Delivery applications

Excellent for Use In:

- Powdered drinks
- Butter & margarine
- Fruit juices, bottled water, & other beverages

Formulators can also use CCM in solid dosage forms:

- Tablets
- Capsules
- Beverages
- Effervescent
- Powdered drinks

Certifications



DimaCal® | Branded Ingredient

DimaCal's buffer capacity leads to significantly less gas creation and acid rebound than with calcium carbonate.

DimaCal® is structured with two moles of calcium attached to one mole of malic acid. Research studies showed DimaCal was significantly better absorbed than calcium carbonate and maintained elevated serum calcium levels for a much longer period of time.

While not water-soluble, DimaCal is soluble at more acidic pH levels.

Available forms

4050 DimaCal® Powder: 29% Ca

4049 DimaCal® Granular: 29% Ca

4048 DimaCal® Tabletable: 29% Ca

Delivery applications

DimaCal's low G.I. reactivity makes it an excellent fit for solid dosage formulations, including:

- Tablets
- Capsules
- Baked goods
- Powdered drinks
- Butter & margarine
- Apple juice & yogurt

Certifications



Unique Blends



Common foods and beverages typically reduce the absorbability of added calcium. The absorption of Calci-K® is unique, as research results found that Calci-K's absorption rate is not reduced when taken with milk.

Specifically designed to fortify liquid food products, Calci-K blends calcium, potassium, and phosphorus molecules into a patented, easily absorbed complex. Calci-K is also able to maintain complete dispersion in liquids at a pH between 3.5-8.0. No additional suspending agents are required.

Available forms

4500 Calci-K® Powder: 18% Ca

Delivery applications

Calci-K is especially suitable for fortification of:

- Infant formulas
- Soy based products
- Products with neutral pH
- Dairy and imitation dairy products
- Liquids, including fresh milk, soy milk, & apple juice

Certifications





Calcium—did you know?

In addition to building dense bones, Calcium helps maintain healthy blood pressure, supports healthy weight management and a healthy colon.

52.00 24

Cr

chromium

Chromium

Albion's Chromium Nicotinate Glycinate Chelate: efficient, safe, bioavailable.

Chromium aids in the metabolism of glucose, fats, and proteins and helps promote healthy blood sugar levels. Formulators can consider chromium in products designed to support healthy:

- Weight management
- Blood sugar management

Chelated Chromium

Chromium Nicotinate Glycinate Chelate

A blend of chromium, glycine, and niacin (vitamin B3) is generally considered to be one of the safest and most efficient delivery forms of the mineral. Niacin also allows for the release of the chromium as a biologically active agent.

Available forms

3507 Chromium Nicotinate Glycinate Chelate: 2.5% Cr

Delivery applications

Excellent for Use In:

- Foods
- Capsules
- Tablets
- Beverages

Certifications



TRAACS



63.55 29

Cu

copper

Copper

Copper Bisglycinate Chelate is scientifically proven to be safer than inorganic copper.

The body needs copper to absorb and utilize iron and to generate ATP, the body's energizing fuel. Copper is required for the synthesis of hormones and collagen. Copper protects DNA from oxidative damage and promotes healthy skin and hair. Formulators can add copper to support healthy:

- Skin and hair
- Energy levels
- Hormonal function
- Antioxidant function

Chelated Copper

Copper Bisglycinate Chelate

Albion's chelated copper is bound to two organic glycine molecules. These low molecular weight ligands increase the copper's bioavailability and make the chelated form gentler on the stomach.

Available forms

3502 Copper Bisglycinate Chelate: 10% Cu

Delivery applications

Excellent for Use In:

- Foods
- Capsules
- Tablets
- Beverages

Certifications



TRAACS



55.85 26

Fe

iron

Iron

Iron can be difficult to digest, and inorganic iron supplements, such as ferrous sulfate, have low bioavailability and can cause gastric upset. Albion chelates bind iron to amino acids of low molecular weight to produce a natural, organic chelate that remains intact in the stomach and is small enough to be absorbed through the intestinal wall.

Iron deficiency is the most prevalent nutritional disorder in the world. According to the World Health Organization, over two billion people are anemic. Iron is an important component of hemoglobin, which carries oxygen to tissues and helps fight fatigue. Iron is also essential to healthy cell function and helps form many of the proteins and enzymes that maintain good health. Add iron to products that support:

- Energy
- Immune health
- Cognitive function
- Cardiovascular health
- Fetal and infant development

Iron Products

Chelated Iron

Ferrochel®

Iron Taste Free™

Chelated Iron



Compared to inorganic iron, Ferrochel® (Ferrous Bisglycinate Chelate) is more bioavailable and causes less gastric upset.

The many unique attributes of Ferrochel support its superior role as an iron supplement in humans.

- Less gastric upset
- Safer than typical iron salts
- Bioavailable (easily absorbed)
- Does not react with other nutrients
- Small, stable molecule with no ionic charge

Ferrochel is a unique, fully chelated iron product formed by binding iron to two organic glycine molecules. Most iron carries a positive electrical charge, but the patented chelation process leaves Ferrochel ionically neutral, so it does not deactivate or block the absorption of other nutrients. This is especially important in multi-vitamins for gestating mothers and growing children.

Ferrochel's small molecular size allows it to remain intact throughout the G.I. tract for optimal absorption. In clinical research comparing inorganic iron to Ferrochel, study participants reported fewer instances of gastrointestinal upset with Ferrochel than with ferrous sulfate.

Available forms

3509 Ferrous Bisglycinate Chelate: 20% Fe

Delivery applications

Excellent for Use In:

- Foods
- Beverages
- Tablets
- Chewables
- Capsules
- Infant formula
- Prenatals
- Powdered drinks

Certifications



TRAACS



GRAS

Iron Taste Free™ (ferric glycinate)

Chewable tablets, lozenges, or any sort of beverage that contains iron will tend to have an unpleasant metallic aftertaste. According to a recent survey from the American Academy of Pediatrics, 86.7% of doctors reported that unpleasant taste is a major cause of non-compliance. In response to this need, Albion developed Iron Taste Free.

Several clinical studies have been done showing a greater absorption rate for Iron Taste Free than with ferrous sulfate.

Researchers found that electrochemical neutrality, charge balance, and low solubility give Iron Taste Free stability and sensory quality advantages.

Iron Taste Free has been shown to be an effective way to treat and prevent iron deficiency anemia due to its bioavailability and safety. Iron Taste Free is a great choice for iron in supplements and food products that need to have a palatable form of iron.

Available forms

3466 Iron Taste Free™: 19% Fe

3462 Iron Taste Free™ SF (Super Fine): 19% Fe

Delivery applications

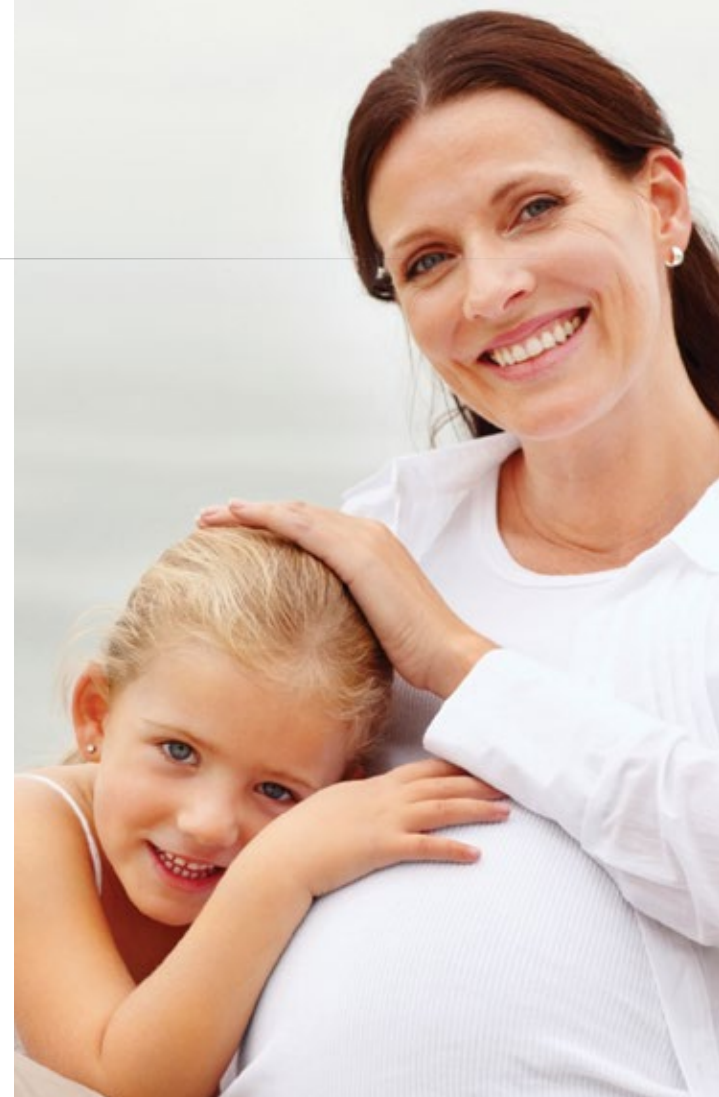
Excellent for Use In:

- Foods
- Beverages
- Dairy products
- Tablets
- Chewables
- Powdered drinks
- Capsules
- Infant formula

Certifications



GRAS



Iron—did you know?

For pregnant moms, iron helps transmit oxygen to baby's cells and helps mom fight off irritability and low mood.

Magnesium

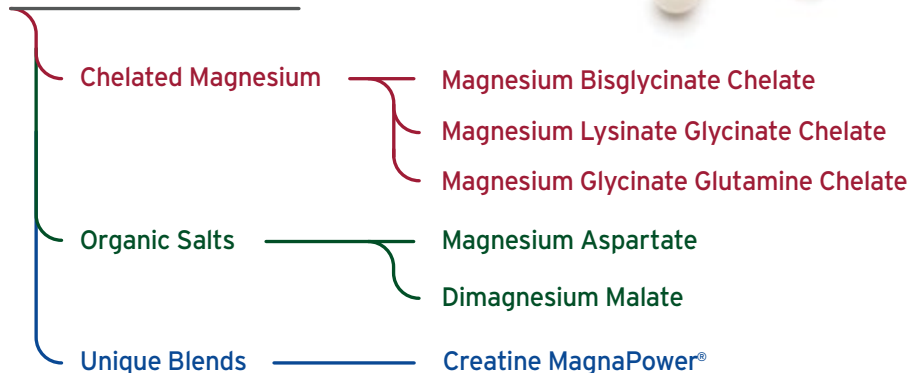
Albion's Chelated Magnesium is scientifically proven to be easier on the G.I. tract

Magnesium is a crucial macro mineral involved in over 300 physiological processes. It is essential to body structure and healthy function. Research studies have shown that magnesium supports:

- Bone health
- Sound sleep
- Nerve function
- Cognitive health
- Energy production
- Cardiovascular health
- Healthy blood pressure
- Healthy immune system
- Healthy cholesterol levels
- Healthy glucose metabolism
- Muscle strength performance
- Healthy mood and emotion regulation



Magnesium Products



Chelated Magnesium

Albion's magnesium chelates have been clinically demonstrated to be the most bioavailable organic forms of magnesium available. Because Albion's magnesium chelate does not ionize in the gut, it is well tolerated and does not cause the G.I. distress evident with other magnesium sources. Albion's Chelated Magnesium is:

- Stable
- Well-tolerated
- Highly bioavailable

Albion scientists have bonded magnesium with amino acids, which the body easily recognizes and absorbs. Albion provides three different forms of chelated magnesium, each of which utilizes a different amino acid ligand: glycine, lysine, or glutamine.

Albion's Chelated Magnesium is nutritionally functional because it remains intact throughout the gastrointestinal system. No other form of magnesium offers all the proven advantages seen with Albion's Magnesium Amino Acid Chelates, which continue to accumulate scientific evidence proving their increased bioavailability, tolerance, and stability.

Magnesium Bisglycinate Chelate

This chelate binds magnesium with two glycine molecules. Glycine is a naturally occurring amino acid that forms mineral chelates with a small molecular weight, which are then easily absorbed through cell linings.

Albion offers both original and buffered versions of this product. Albion's magnesium chelates have been clinically demonstrated to be easier on the G.I. tract; the buffered form utilizes magnesium oxide to combine high elemental magnesium value with high bioavailability.

Available forms

- 3476** Magnesium Bisglycinate Chelate: 10% Mg
- 3477** Magnesium Bisglycinate Chelate Granular: 10% Mg
- 3451** Magnesium Bisglycinate Chelate Buffered: 18% Mg
- 3951** Magnesium Bisglycinate Chelate Buffered Granular: 18% Mg
- 3461** Magnesium Bisglycinate Chelate Taste Free: 8% Mg

Delivery applications

Excellent for Use In:

- Foods
- Capsules
- Tablets
- Beverages

Certifications



Magnesium Lysinate Glycinate Chelate

This chelate binds magnesium with lysine, an essential amino acid that is a building block for all protein. Together, magnesium and lysine support magnesium absorption and aid muscle recovery.

Available forms

- 3500** Magnesium Lysinate Glycinate Chelate: 10% Mg
- 3499** Magnesium Lysinate Glycinate Chelate Granular: 10% Mg

Delivery applications

Excellent for Use In:

- Foods
- Capsules
- Tablets
- Beverages

Certifications



Magnesium Glycinate Glutamine Chelate

This chelate binds magnesium to both glycine and glutamine, enhancing molecule stability and nutritional functionality. Glutamine is the most abundant free amino acid in the body and helps support optimal recovery when the body undergoes physical stressors and challenges.

Available forms

- 3527** Magnesium Glycinate Glutamine Chelate: 8.5% Mg

Delivery applications

Excellent for Use In:

- Foods
- Capsules
- Tablets
- Beverages

Certifications



Magnesium—did you know?

Magnesium is critical to over 300 functions in the body, including heart rhythm, blood pressure, sleep, energy production, and muscle health.



24.31 12

Mg
magnesium

Magnesium

Organic Salts

Magnesium Aspartate

An organic form of magnesium often included in dietary supplements

Available forms

3543 Magnesium Aspartate: 20% Mg, made to order only

3542 Magnesium Aspartate Granular: 20% Mg

Delivery applications

Excellent for Use In:

- Foods
- Tablets
- Capsules
- Beverages

Certifications



Dimagnesium Malate

An organic salt magnesium that has been clinically shown to have higher blood serum and total absorption compared to magnesium oxide (the magnesium salt most often used as the standard for comparison in clinical trials) alone.

Available forms

4051 Dimagnesium Malate: 20% Mg

4052 Dimagnesium Malate Granular: 20% Mg

Delivery applications

Excellent for Use In:

- Foods
- Tablets
- Capsules
- Beverages

Certifications



Unique Blends



Branded
Ingredient

Creatine MagnaPower® is a unique blend of magnesium and creatine. It helps deliver energy-producing ATP to muscle cells for increased anaerobic performance. This molecule has been shown to outperform both creatine monohydrate and creatine monohydrate given with magnesium.

The advantage of Creatine MagnaPower for cognitive health: Research studies indicate that creatine protects against loss of cognitive function and supports healthy memory formation, organization and storage, and the ability to focus.

Available forms

3465 Creatine MagnaPower® Powder: 8% Mg

Delivery applications

Excellent for Use In:

- Tablets
- Liquids
- Capsules
- Powdered food
- Sports recovery drinks
- Protein-powder supplements
- Muscle-building supplements
- Electrolyte powders or beverages

Certifications



54.94 25

Mn

manganese

Manganese

This form of manganese is bound to two organic glycine molecules. These low molecular weight ligands keep the manganese intact during stomach transit, helping to reduce G.I. distress, increase tolerability, and improve mineral absorption.

Manganese supports healthy skin, bones, and cartilage formation. It also improves glucose tolerance and helps active superoxide dismutase (SOD), an important antioxidant enzyme. Formulators can consider manganese to help support healthy:

- Bones
- Vision
- Memory
- Positive mood
- Metabolic activity
- Hormonal function
- Regulation of blood sugar

Chelated Manganese

Manganese Bisglycinate Chelate

Available forms

3505 Manganese Bisglycinate Chelate: 16% Mn

Delivery applications

Excellent for Use In:

- Foods
- Capsules
- Tablets
- Beverages

Certifications



TRAACS®



95.96 42

Mo

molybdenum

Molybdenum

The glycine molecules bound to the molybdenum help keep it intact during digestion, helping to reduce G.I. distress and increase tolerance. It also improves the mineral bioavailability.

This mineral is needed for the proper functioning of certain enzyme-dependent processes, including iron metabolism. It also supports a healthy inflammation response. Formulators can add molybdenum to support healthy:

- Detoxification
- Antioxidant activity
- Inflammation response

Chelated Molybdenum

Molybdenum Glycinate Chelate

Available forms

3526 Molybdenum Glycinate Chelate: 2.5% Mo

Delivery applications

Excellent for Use In:

- Foods
- Capsules
- Tablets
- Beverages

Certifications



TRAACS®



39.10 19

K

potassium

Potassium

This form of potassium is a hypoallergenic, soluble, gastric-friendly potassium complex.

A macro mineral, potassium helps keep body fluids in balance and regulates acidity, blood pressure, neuromuscular function, and the transmission of electrical cardiovascular impulses. This mineral also helps the body manage anxiousness and stress. Potassium can be added to products that support:

- Electrolyte functions
- Reduced anxiousness
- Cardiovascular health
- Muscular development
- Healthy blood pressure

Potassium Amino Acid Complex

Potassium Glycinate Complex

Available forms

3145 Potassium Glycinate Complex: 18% K

Delivery applications

Excellent for Use In:

- Foods
- Capsules
- Tablets
- Beverages

Certifications



78.96 34

Se

selenium

Selenium

This form of selenium is an organo-selenium compound.

This antioxidant is present in every human cell and works synergistically with vitamin E to protect against free radical damage. Formulators can consider selenium to support healthy:

- Immune function
- Prostate function
- Skin repair and anti-aging functions
- Lipid levels, particularly higher HDL levels

Selenium Amino Acid Complex

Selenium Glycinate Complex

Available forms

3523 Selenium Glycinate Complex: 1% Se

Delivery applications

Excellent for Use In:

- Foods
- Capsules
- Tablets
- Beverages

Certifications



50.94 23

V

vanadium

Vanadium

Albion's Vanadium Nicotinate Glycinate Chelate is bound to a low molecular weight organic ligand.

Vanadium supports healthy glucose metabolism and may improve insulin sensitivity. This trace mineral may help:

- Support normal bone growth
- Maintain healthy blood sugar levels
- Maintain cholesterol levels already within the normal range

Chelated Vanadium

Vanadium Nicotinate Glycinate Chelate

Vanadium nicotinate, a blend of vanadium and niacin (vitamin B3), is generally considered to be one of the most efficient and safest delivery forms of the mineral. Niacin also allows for the release of the vanadium as a biologically active agent.

Available forms

3519 Vanadium Nicotinate Glycinate Chelate: 1% V

Delivery applications

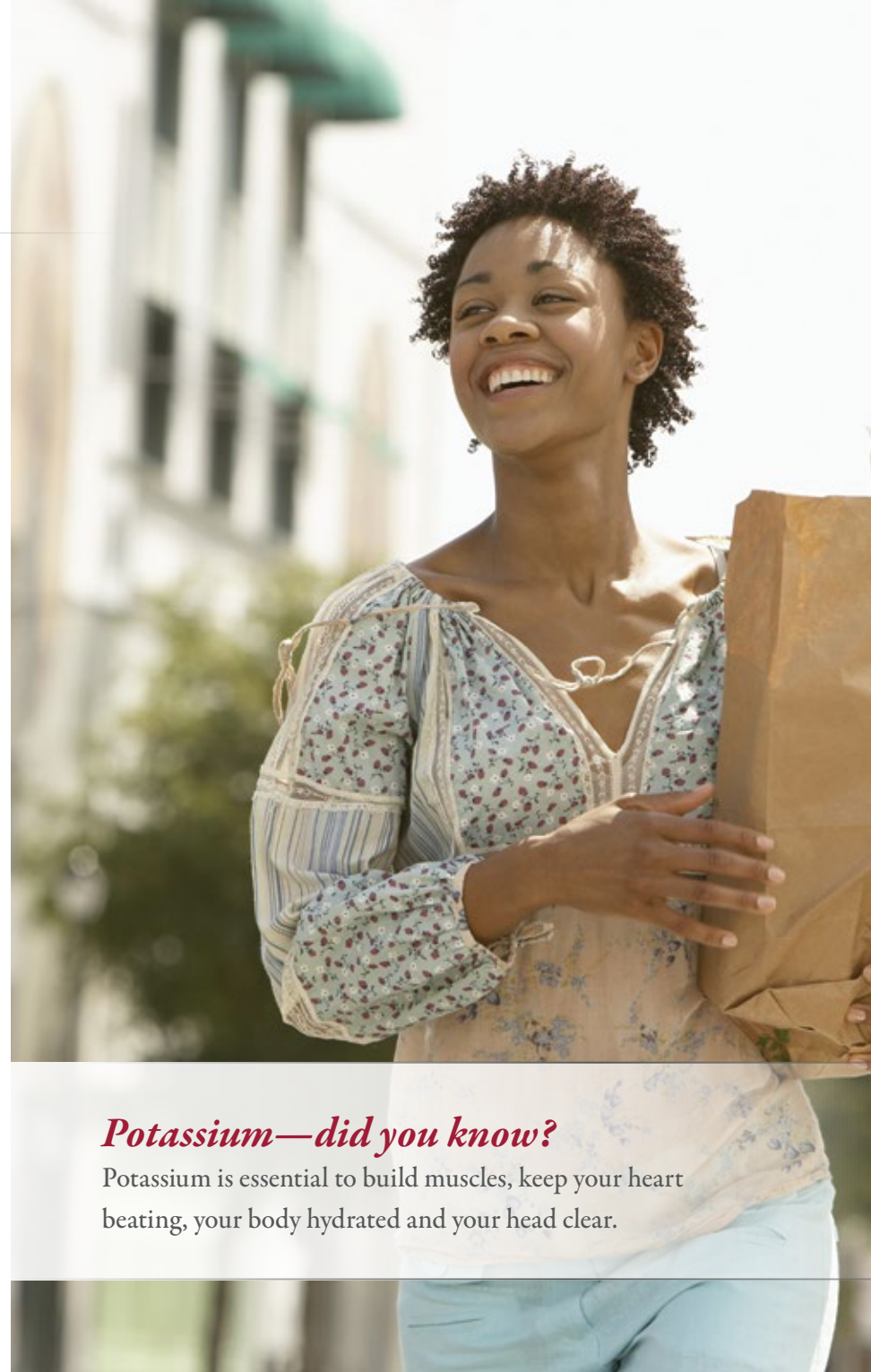
Excellent for Use In:

- | | |
|-----------|-------------|
| ■ Foods | ■ Capsules |
| ■ Tablets | ■ Beverages |

Certifications



TRAACS®



Potassium—did you know?

Potassium is essential to build muscles, keep your heart beating, your body hydrated and your head clear.

Zinc

Albion Chelated Zinc is absorbed intact and breaks apart in the intestinal cell for transport.

Zinc is a trace mineral needed by more than 300 enzymes to repair the body and protect against immune invaders. It also helps synthesize proteins, helps cells reproduce, protects against natural aging, and helps maintain fertility in adults. Strenuous exercise both requires and depletes zinc stores, and low zinc levels in the muscles correlate with reduced endurance capacity. When added to foods, beverages, and supplements, zinc can help support:

- Healthy vision
- Healthy growth
- Sports recovery
- Electrolyte balance
- Healthy immune function
- Normal inflammation response

Zinc Products



Chelated Zinc

Albion's Chelated Zinc: Greater Absorption and Tolerance

The zinc manufactured by Albion is a totally reacted, nutritionally functional zinc amino acid chelate. As such, it is not handled in the gut in the same way as the typical zinc salt forms. Albion's zinc is absorbed intact and is not ionized.

Albion's totally reacted zinc amino acid chelates are a form of zinc that is best absorbed considering all the factors that are known to negatively impact zinc absorption.

Taste Free Zinc for Food Fortification:

Albion's Taste Free Zinc Chelates are excellent for use in food fortification. For example, the phytates found in the fibers of various grains do not decrease absorption of Albion's zinc amino acid chelate the way it does with other zinc forms.

Advantage of Chelated Zinc in Dietary Supplements:

Dietary supplements that use this form of zinc have less dietary absorption interference and better relative absorption than other forms of zinc. Our zinc chelates are even stable enough to reduce reactions with Omega-3s.

Zinc Bisglycinate Chelate

This chelate binds zinc to two organic glycine ligands, resulting in a low pH, highly stable structure that is easily absorbed. In a study comparing the oral bioavailability of zinc bisglycinate chelate to zinc gluconate, Albion's chelated form increased absorption more than 43%. Other studies have shown the absorption of zinc bisglycinate chelate was also higher than zinc picolinate, zinc glycinate and zinc oxide, sometimes by as much as 300%.

Available forms

3506 Zinc Bisglycinate Chelate: 20% Zn

3463 Zinc Bisglycinate Chelate Taste Free: 10% Zn

Delivery applications

Excellent for Use In:

- Foods
- Tablets
- Capsules
- Prenatals
- Beverages
- Chewables
- Effervescent
- Baked goods
- Infant formula
- Dairy Products
- Immune formulas
- Electrolyte products
- Sports recovery drinks

Certifications



Zinc Arginate Chelate

This chelate combines the health benefits of zinc and arginine in one unique chelate molecule. Both these nutrients support a healthy immune system, cellular repair, muscle growth, and growth hormone function. Additionally, the combination of zinc with arginine resolves the gastric distress and excess gas typically caused by zinc or arginine when consumed separately.

Available forms

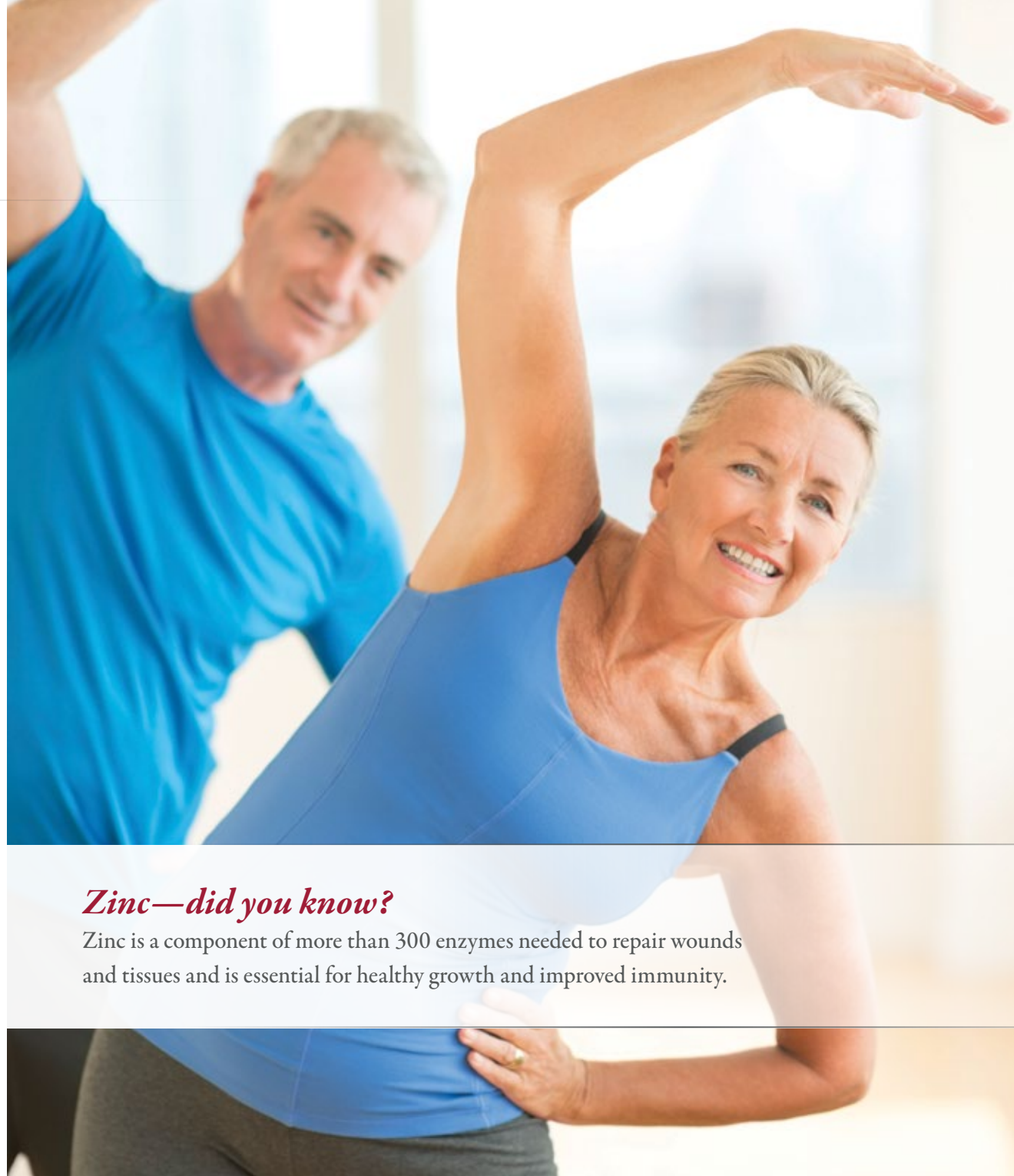
3512 Zinc Arginate Chelate: 10% Zn

Delivery applications

Excellent for Use In:

- Foods
- Tablets
- Capsules
- Beverages

Certifications



Zinc—did you know?

Zinc is a component of more than 300 enzymes needed to repair wounds and tissues and is essential for healthy growth and improved immunity.



Albion—The Mineral People™

At Albion, we do one thing extremely well. Minerals. For 60 years, we've dedicated ourselves to researching and testing minerals, receiving patents for our mineral chelation process, and publishing studies on the health benefits of minerals. When it comes to minerals, you might say we're hyper-focused. We'd agree, but this focus has resulted in an astounding 150 patents and 70 human clinical trials on dozens of mineral-based products that are highly effective, safe, easy to absorb, and gentle on the stomach. That's why, when asked what Albion is all about, we answer, "We're the Mineral People."



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Find us on the web

Visit our corporate website for information
on our company, products, and more:

www.albionminerals.com

Albion's consumer "Where to Buy" site

Take a look at our "Where to Buy" page for your
consumers as well as the educational materials
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