

Life's First Naturals[®] PRO

Daily Colostrum

Exclusively for Healthcare Professionals

Physician's Handbook



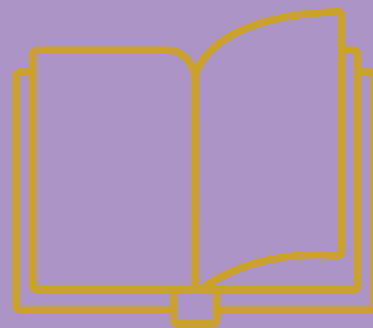
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The Purpose of this Handbook...



Designed to provide comprehensive guidance, this handbook offers healthcare professionals a deep understanding of how Life's First Naturals® PRO with ColostrumOne® Extra Strength Bovine Colostrum Powder can optimize patients' daily nutrition protocols.

This valuable resource equips healthcare professionals with the knowledge to effectively incorporate this premium supplement into personalized treatment plans.

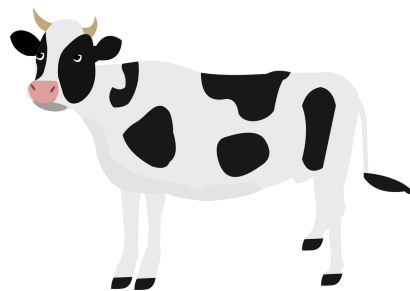
From detailed product information and dosing guidelines to evidence-based research and clinical insights, we aim to empower healthcare professionals to make informed decisions that promote optimal health outcomes for their patients.

First things first.....

What is Bovine Colostrum?

Colostrum, which is produced by the mammary glands found in the breast tissues of mammals, is essential for newborns during the first days of life. Cows (bovine) produce a colostrum functionally similar to that of humans. Like infants, newborn calves receive protective proteins and other nutrients directly from their mother's colostrum within the first 24 hours after birth, providing them with everything they need to survive, thrive and grow. Research has shown that colostrum from dairy cows can play a significant role in supporting human health throughout life.*

In today's environment, it's essential to recognize and utilize multiple forms of immune protection strategies to address upper-respiratory and digestive health. Colostrum is nature's gift to all mammals. Human colostrum provides infants with the foundation to help develop an efficient digestive system, assist with nutrient absorption, and help build a solid framework for a robust immune system.*



*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

Colostrum's Critical Components

Functionally similar to human colostrum, **bovine colostrum contains over 250+ naturally-occurring bioactives.**

The following list reviews the core protective proteins, immune and growth factors, and prebiotics found in bovine colostrum, which are essential for human and animal health.*

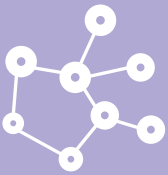
Life's First Naturals® PRO harnesses the power of ColostrumOne™ Extra Strength, the renowned gold standard in colostrum. Featuring an advanced, proprietary (dual-lipid) matrix, our enhanced formula delivers 2x the availability of immune and digestive bioactives able to survive the harsh gut environment compared to retail formulations.

ColostrumOne™ is a naturally derived, comprehensive health solution comprised of a multitude of bioactives that help to strengthen and sustain health and vitality at all stages of life.*



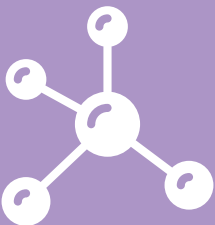
Immunoglobulins

Also known as antibodies, immunoglobulins are used by the immune system to identify, attack, and neutralize foreign substances such as allergens, bacteria and viruses. Absorption of immunoglobulins is essential for the passive immunity of neonatal mammals after birth. Colostrum contains IgG, IgA, IgM, IgD, and IgE.



Cytokines

Colostrum contains many of these biological response modifiers. These can be protein, peptide, or glycoprotein signaling molecules used in cellular communications. Cytokines have a specific role as regulators of epithelial cell growth and development, including intestinal inflammation and epithelial restoration following mucosal damage. They are also essential mediators in the regulation of immune and inflammatory responses throughout the body.



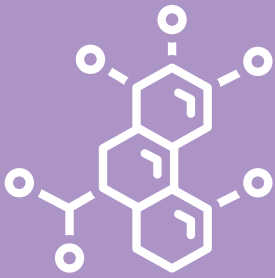
Lactoferrin

An antimicrobial component of the immune system that fights bacteria and fungi in the body. Lactoferrin binds metal ions which are necessary bacterial metabolites, making them unavailable for bacterial development. Lactoferrin has been shown to inhibit the growth of specific microbes, such as E. coli and Salmonella. Lactoferrin has also demonstrated antiviral effects.



Lysozyme

An antibacterial enzyme that helps to support the immune system by disrupting the cell walls of harmful bacteria. It has been shown to work synergistically with Lactoperoxidase, IgA, and Lactoferrin, offering an enhanced antimicrobial effect.



Lactoperoxidase

A major antibacterial enzyme in colostrum, Lactoperoxidase, protects the lactating mammary gland from infections. It has also been shown to work synergistically with Lactoferrin for an enhanced antibacterial effect. Some viruses, like polioviruses, are sensitive to Lactoperoxidase's toxic impact on viruses.



Insulin-like Growth Factors (IGF-I and IGF-II)

The most abundant growth factors of bovine colostrum. These proteins are single-chain polypeptides with amino acids. They play an essential role in childhood growth and have an anabolic effect in adults.



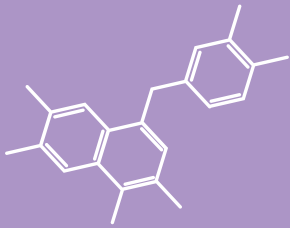
Epidermal Growth Factor (EGF)

EGF is vital in regulating cell growth, proliferation, and differentiation. The EGF family of growth factors can help modulate the epidermis, mammary gland, and gut development.



Transforming Growth Factor Alpha (TGF- α)

It is complementary to TGF- β in controlling the balance between cell proliferation and differentiation in the intestinal epithelium. It has been shown to stimulate gastrointestinal growth and repair.



Oligosaccharides and Glycoconjugates

Oligosaccharides are carbohydrates that contain between three and ten monosaccharide residues, covalently linked through glycosidic bonds, and are divided into two broad classes, neutral and acidic. Oligosaccharides act as a prebiotic as they are neither digested or absorbed in the upper intestinal tract of humans but are delivered intact into the colon where they can act as nutrients for colon microflora.



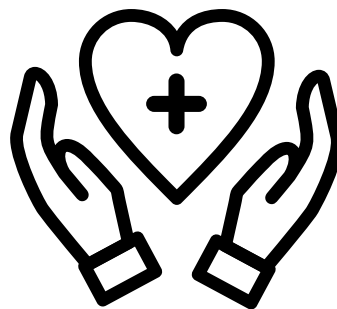
Proline-rich Polypeptides (PRPs)

Also known as colostrinin - PRPs have been shown to play an important role in immunity with their antiviral role in further immune protection. PRPs have been shown to benefit immune and nervous systems for children, adults and the elderly.

Many studies have shown that PRPs are possibly effective in the regulation of cell and tissue processes and the interactions of signal and regulatory proteins.

The Vital Role of Colostrum: Essential in Today's Times

Having a dynamic approach to immune/digestive protection is essential in today's times. Maintaining balance in the body with healthy microorganisms is a major factor leading to homeostasis in the body for optimal health. With over 6,000 studies illuminating the science, research has shown that bovine colostrum can play a major role in human health and nutrition, including digestive and immune health, early life nutrition, and sports nutrition.* Bovine colostrum has been shown to be a safe, multi-functional solution that assist in creating homeostasis within the body.



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Maximizing Colostrum Benefits with Lipid Matrix Delivery

The importance of the lipid matrix delivery system in Life's First Naturals® PRO colostrum (formulated with Colostrum One™ Extra Strength) cannot be overstated. This proprietary lipid matrix plays an essential role in preserving the bioactive compounds in colostrum and ensuring their efficient absorption by the body. Our lipid matrix coating enhances the availability of bioactives by almost 2x, safeguarding them through the challenging gut environment**.

Using this patent-pending technology, we protect the bovine colostrum bioactives from degradation during digestion, resulting in increased levels of IgG, immune, and growth factors. This sets our product apart and emphasizes the significance of an effective delivery system for maximizing the beneficial outcomes of colostrum supplementation.

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**Compared to Life's First Naturals® Original Formulation

How Can Life's First Naturals® PRO Colostrum Benefit Your Patients?

Digestive/Gut Health

Colostrum contains a beneficial combination of bioactive components that support digestive health, including but not limited to immunoglobulins, growth factors, and prebiotic oligosaccharides. These bioactive components help maintain and support intestinal lining integrity and improve nutrient absorption. In addition, naturally occurring prebiotics feed beneficial bacteria and support a balanced digestive system in adults and children.*

Colostrum works with the body to maintain and support the integrity of the intestinal lining through dual action. Immunoglobulins help respond to foreign substances such as allergens and bacteria, and growth factors help support the intestinal lining and maintain gut integrity. These highly beneficial components support your gut's microbiome and assist the body's natural immunity*. Maintaining a healthier diet regimen, i.e., reducing sugar, alcohol, preservatives, pesticides, and artificial flavors/colorings can also help to support your patient's health and wellness goals.



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Clinical Research in Adults Shows That Bovine Colostrum:

- Supports the gut's natural repair process, leading to normal function.*
- Addresses occasional digestive upsets at the source by positively impacting the gut lining.*
- Supports gut lining integrity by positively impacting layers of the gut. Gut lining can be impacted by potential challenges from our foods and possible toxins (i.e., non-steroidal anti-inflammatory drugs like aspirin, alcohol, and even high-intensity workouts).*
- Supports overall gut function.*
- Assists in nourishing the body's beneficial bacteria naturally.*



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Immune Support

Colostrum is composed of a powerful combination of bioactive components that support immune health, including immunoglobulins and immune factors. These bioactives work together to support not only the immune system but have also been shown to support respiratory health in adults and children.*



Bovine Colostrum Clinical Research in Adults Shows Colostrum:

- Supports the immune system*
- Helps regulate and balance the body's natural immune response, which is needed to sustain good health*
- Supports respiratory health*
- Helps protect and nourish the gut, where over 70% of the immune system resides*

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Respiratory Health

Based on current findings, bovine colostrum can be considered a natural food source that promotes respiratory well-being. Research studies have also indicated that bovine colostrum may support the upper respiratory health of children and adults.*

Bovine Colostrum Clinical Research in Adults Indicates:

- Respiratory health support*
- Support for a child's immune response to common upper respiratory illnesses*
- Increased immune response to upper respiratory illness in adults*



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Early Life Nutrition

While bovine colostrum and human breast milk are critical parts of early nutrition, research has shown that colostrum has continued benefits in children over the age of one. As a component in early life nutrition, colostrum helps support a child's immune system, soothe occasional digestive upset, and overall digestive health.*

While not a replacement for breastfeeding, bovine colostrum clinical research for early-life nutrition has demonstrated important benefits to early life.



Bovine colostrum clinical research for early life nutrition has demonstrated important benefits to early life and, while not a replacement for breastfeeding:

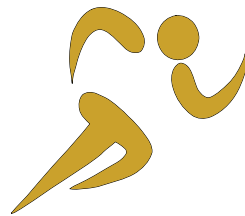
- Helps relieve occasional digestive upsets and soothe your child's tummy*
- Supports your child's respiratory health*
- Provides a comprehensive source of valuable proteins, fats, carbohydrates, vitamins, minerals, and immune & growth factors that support a child's healthy gut and immune system*
- Supports upper respiratory tract health in children*
- Helps reduces symptoms and severity of vomiting and diarrhea*

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Sports Nutrition

Bovine Colostrum contains numerous bioactive components that have the potential to support sports and active nutrition. Among these components are immunoglobulins and growth factors, which play a crucial role in bolstering the immune system during athletic training. Additionally, they support vital processes like cellular proliferation, restitution, protein synthesis, and soft tissue repair. Consequently, athletes may experience more efficient recovery, potentially enabling more effective and productive workouts.*

Utilizing bovine colostrum supports athletes' performance goals while helping to maintain a healthy gut and immune system, paving the path for optimal performance during exercise.*



Clinical research into the benefits for athletes/activities has shown that bovine colostrum:

- Supports a healthy immune system during exercise*
- Helps reduce exercise-induced muscle damage in athletes*
- Helps improve second-bout exercise performance*
- Supports increased muscle mass*
- Helps improve recovery from exercise*
- During training helps improve peak anaerobic power*
- Helps maintain digestive function*
- Provides high-quality bioavailable protein in addition to vitamins and minerals*

*Athletes notoriously have compromised gut immunity due to increased strain on the digestive tract and propensity toward hyper intestinal permeability. Bovine colostrum can help support the body's natural repair process.**

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Pet Health

Supplemental bovine colostrum has long been used to improve the health and nutrition of dairy and beef calves worldwide. More recently, studies have shown benefits for other livestock and in companion animals and pets.

Benefits of Colostrum for Dogs:

- Colostrum is a comprehensive source of immune & growth factors*
- Helps reduce stress-related diarrhea/loose stools*
- Colostrum provides immunoglobulins and other growth factors that help stimulate the growth and repair of the GI tract*



Benefits of Colostrum for Cats:

- Colostrum is a comprehensive source of immune and growth factors*
- Helps maintain healthy immune function and balance without overstimulating the immune system*
- Helps improve fecal quality subject to the stress of changing their diet and/or their environment*



Skin Health

Bovine Colostrum can be a promising approach for topical skin health due to its abundance of immunoglobulins, growth factors, and other essential bioactive components.

Dental - Oral Microbiome Health

Like skin health, oral health is an emerging study area for bovine colostrum. It is believed that bovine colostrum could help with plaque/biofilm buildup that accumulates on the surface of your teeth and can permeate into the gut*. Lactoferrin found in human and bovine colostrum has been shown to positively address specific antibacterial and antibiofilm activities.

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Company Background

Who is PanTheryx, Inc?

PanTheryx, Inc. is a leading nutrition and biologics company. The company was founded to create a colostrum-based solution for occasional or acute pediatric infectious diarrhea, the second leading cause of death of children under five in the developing world. In 2016, PanTheryx acquired APS BioGroup, Inc. and La Belle Associates, Inc. – two of the world's leading suppliers of bovine colostrum – making PanTheryx the largest and most significant global colostrum producer. Today, with more than 35 years of experience and a proven record of product performance and reliability, PanTheryx is delivering high-quality bovine colostrum to dietary supplement, food, and beverage manufacturers for human and animal nutrition throughout the world.

Who is PanTheryx Pro?

PanTheryx Pro is the professional arm of PanTheryx, Inc., which solely supplies adult and children's colostrum formulations to health professional channels and patients. Life's First Naturals Pro is a professional strength colostrum with applications for digestive health, immune support, early life nutrition, and sports nutrition.

PanTheryx, Inc. is a vertically-integrated health and wellness company unique in the colostrum sector. What this means is that every step of our production process is under the oversight of PanTheryx, Inc. From the collection of raw materials to the final packaging and distribution, we meticulously oversee every stage with precision and care.

Our Brand Mission

Life's First Naturals PRO: Presented by PanTheryx Pro

We launched our professional colostrum product line based on consistent requests from U.S.-based health practitioners looking for a standardized and more bioavailable colostrum offering that meets current and future health needs of patients.

The demand for functional immune defense and support strategies is continually growing, and our colostrum formulations align perfectly with this need.

The Life's First Naturals PRO brand reflects our efforts and experience in delivering high-quality, standardized colostrum formulations that meet patients' unique immune and gut health needs. We aim to continue distinguishing ourselves from consumer-retail-grade colostrum formulations.

Our professional product line is formulated with ColostrumOne Extra Strength and a proprietary advanced matrix delivery system that protects and increases the availability of bioactives through the harsh gut environment by 2x compared to retail formulations.

Our colostrum formulas require a recommendation from a certified medical professional.

Professional Grade VS. Retail-Quality Colostrum Formulations

What's the difference?

Our Life's First Natural's Professional colostrum offers health professionals and their patients an efficient delivery system. This formulation provides twice the availability of immune and gut bioactives and 3x the GI support compared to the original formula, thanks to an advanced matrix.

While some countries maintain healthy cows and follow proper feed processes for traditional retail-grade colostrum products, the levels of IgGs, Lactoferrin, Oligosaccharides, and Proline-rich polypeptides (PRP) can vary dramatically and, in some cases, remain untested. At PanTheryx, Inc., we prioritize quality assurance, and all colostrum produced undergoes thorough testing before distribution.

Rest assured that our colostrum is rigorously tested, ensuring consistent and reliable results for your health and wellness needs.

Numerous colostrum products globally consist of transitional milk rather than genuine 24-hour colostrum. At PanTheryx, Inc., we solely utilize 24-hour colostrum sourced from USDA Grade A dairies that adhere to stringent health compliance standards and uphold humane, ethical treatment of their animals.

Our professional-grade colostrum, accessible exclusively through a professional endorsement, undergoes thorough small-batch testing to ensure immunoglobulin levels of 30% or higher (in our adult formulation). The primary indicator of quality, Immunoglobulin type G (IgG), is meticulously examined using our in-house High-Performance Liquid Chromatography (HPLC) units, meeting the standards set by healthcare providers.

PanTheryx has developed an efficient delivery system, ColostrumOne Extra Strength, using a proprietary Lipid Matrix. With our wealth of experience and comprehensive R&D, we consistently deliver optimal colostrum benefits.

All Life's First Naturals Pro Colostrum is produced with meticulous attention to detail and quality, backed by clinical laboratory registrations with the U.S. government for rigorous analytical chemistry and microbiology processes. Every step in our manufacturing production is fully documented and controlled, ensuring top-notch products.

Common Q&As on Life's First Naturals PRO Colostrum Powder

What are the ingredients in Life's First Naturals PRO Colostrum Powder?

Adult: ColostrumOne® Extra Strength (pasteurized bovine colostrum), sunflower lecithin

Kids: ColostrumOne® Extra Strength (pasteurized bovine colostrum), Sunfiber®, natural flavors, monk fruit extract, sunflower lecithin

Where does Life's First Naturals PRO source their colostrum?

All our products are made using ColostrumOne®, ethically collected from USDA Grade A dairies with up to 14,000 cows per farm.

Does Life's First Naturals PRO Powder contain dairy?

Yes, bovine colostrum is a dairy product and should not be used by those with a dairy or milk allergy. It typically contains less lactose than milk. Because lactose intolerance can be severe in some people, we suggest consulting with your physician if you are severely sensitive to lactose.

What about the impact on the calf if the mother's colostrum is collected for human use?

The mother cow produces colostrum in large quantities, far exceeding the calf's needs. Once the calf receives its necessary colostrum, the rest can be collected for additional feeding and other use. ColostrumOne is collected only after the calf has received all of the colostrum it needs to thrive. We capture colostrum for human and animal consumption that would otherwise be going to waste.

Do all colostrum sources provide a first-milking guarantee?

All PanTheryx colostrum is 24-hour first milk. This is pure colostrum rather than transitional milk, which immediately follows this time period. Pure colostrum has significantly higher bioactive content and IgGs than transitional milk in most all cases.

Timing and quality colostrum collection are essential to providing healthcare providers with the most refined solutions. Some colostrum available worldwide is from the third or fourth day after birth. This is more accurately called transition milk which contains lower bioactive components. Hour by hour, these components lower dramatically after the first 24 hrs after birth. All PanTheryx, Inc. colostrum ensures you gain the benefit of first milk without any antibiotics, harmful bacteria, and other contaminants. Our expertise in controlling our vertical process from farm to healthcare provider ensures complete product testing and safety procedures with minimal handling for maximum biosafety protection.

Do Life's First Naturals PRO Powders contain gluten?

While our products do not contain any added gluten, it's important to note that this product is manufactured in a facility that also produces or packages other items that might contain gluten.

Are Life's First Naturals[®] PRO Colostrum Powders GMO?

Life's First Naturals[®] PRO Colostrum Powders are not non-GMO certified; however, the product contains no GMO components.

Country of Origin

Life's First Naturals PRO Colostrum Powders are made in the USA with global components.

Who should be taking Life's First Naturals Colostrum Powder?

Life's First Naturals PRO Colostrum Powder is for adults and children (ages 1+) who want to do more for their health. For a child under one year of age, please consult a medical practitioner. Life's First Naturals PRO Colostrum Powder works with your body to keep your digestive system running smoothly, promotes intestinal microbiome health, and helps regulate the body's natural immune responses.*

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How To Properly Use Life's First Naturals PRO Colostrum Powder: Dosing and Exceptions

For General Use:

- Each Life's First Naturals PRO bottle contains a reusable shaker cup for easier mixing.
- Fill with cool water or your favorite cold beverage to the appropriate line identified on the cup (60 ml for adults, 30 ml for kids). You can also add it to a smoothie, shake or yogurt. Do not mix with hot water or other hot beverages.
- For adults, add four teaspoons of Life's First Naturals PRO Colostrum Powder into the cup. For kids, add two teaspoons of Life's First Naturals PRO Kids Colostrum Powder into the cup.
- Shake until the contents are fully dispersed – we recommend 20 seconds. Immediately drink the entire contents in the cup. Enjoy!
- Don't forget to hand wash the cup thoroughly after each use.

Please consult your doctor about pregnancy, dairy allergies, specific major organ transplants and any special needs specific to your personal medical history.

life's first[®]

NATURALS PRO

DAILY COLOSTRUM

For Healthcare Professionals Only

HOW TO TAKE BOVINE COLOSTRUM IN 4 EASY STEPS

Locate the mixing cup included in each jar of colostrum. *Please note: The cup may be concealed by powder due to contents shifting during transit. Rinse thoroughly.*

1

Fill with cool water or your favorite cold beverage of choice to the appropriate line identified on the cup (60 ml for adults, 30 ml for kids). You can also add to a smoothie or a shake. Do not mix with hot water or other hot beverages.



2

Add 4 teaspoons of Life's First Naturals Colostrum Powder into the cup. For kids add 2 teaspoons of Life's First Naturals Kids Colostrum Powder into the cup.



3

Shake until the contents are fully dispersed – we recommend 20 seconds.



4

Immediately drink the entire contents in the cup. Enjoy!



To learn more, visit us at: www.PanTheryxPro.com



Life's First Natural's PRO Colostrum: A Better User Experience (Simplicity, Taste, and Delivery)

Bovine Colostrum is safe for nearly all mammals, including humans. Depending on your current health condition, we recommend starting with a maintenance dosage (or less) for the initial five days, as recommended by your practitioner. Individuals with lactose intolerance should consult their healthcare practitioner to determine the suitable dosing of bovine colostrum, as its lactose and casein content is slightly reduced during processing.

Questions have been asked whether colostrum can be effectively absorbed along with food. Life's First Naturals Pro can be taken any time of day, with or without food. It is recommended that you take it at the same time every day so it becomes part of your daily health routine. There is no conclusive evidence of a benefit for taking colostrum on an empty stomach compared to taking it alongside a meal.

You can take colostrum with any cool/cold beverage, including water, unsweetened green tea, or any other beverage of your choice, as long as it's not hot or boiled. Heating the colostrum in this way could potentially kill off the beneficial bioactives present in it. For your convenience, we provide a reusable mixing cup. Add water to the cup and mix vigorously until the colostrum is fully dissolved, which usually takes around 20 seconds.

Since bovine colostrum is a natural ingredient, you may notice slight differences in appearance and mixability. However, these variations do not reflect any compromise in the freshness or quality of this natural food source. It is normal to experience such differences, and we recommend shaking the product for 20-30 seconds. Feel free to agitate it more if needed, until you achieve your desired consistency.



Life's First Naturals PRO Colostrum

Maintenance Protocols: Duration of Use

Although the recommended daily dose is four teaspoons for adults, the commencement of Life's First Naturals® PRO Colostrum Powder should be tailored according to your patient's profile. This might require multiple administrations per day initially and then transition to once-daily for maintenance.

This powerful superfood can be integrated into a proper diet/exercise regimen for longterm health and wellness. Patients should be counseled that stopping bovine colostrum supplementation abruptly may have similar effects to discontinuing a food-based diet that has been successful for them.



Life's First Naturals Pro Adults Colostrum Powder with ColostrumOne Extra Strength

We've standardized our adult colostrum formulation to contain:

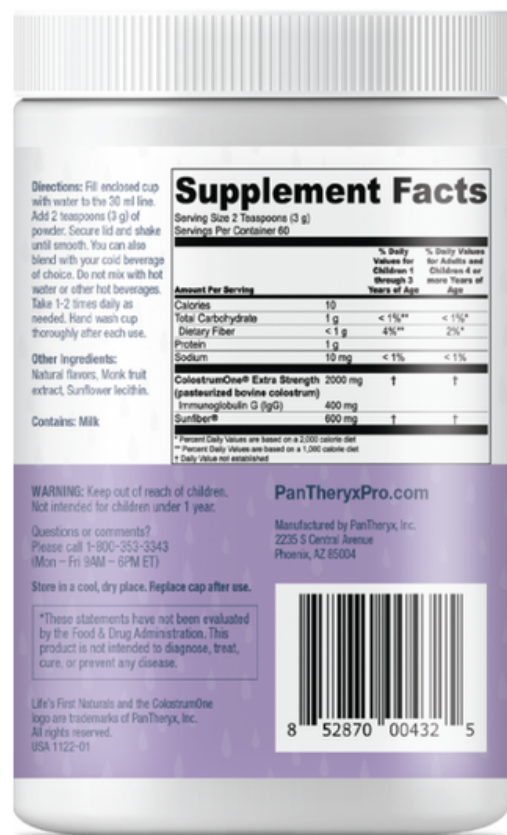
- **A minimum of 1500mg (30%) of Immunoglobulin G (IgG).**
- **A lipid-matrix delivery system**
 - *This proprietary coating preserves bioactive compounds, enhancing absorption by almost 2x and safeguarding them during digestion, resulting in increased IgG, immune, and growth factors**.*



Life's First Naturals Pro Kids Colostrum Powder (With Fiber)

We've standardized our extra-strength children's colostrum formulation to have:

- A minimum of 400mg (20%) of Immunoglobulin G (IgG).
- 600 mg of Sunfiber additive***
- Smooth vanilla flavoring
- A lipid-matrix delivery system
 - *This proprietary coating preserves bioactive compounds, enhancing absorption by almost 2x and safeguarding them through digestion, resulting in increased IgG, immune, and growth factors**.*



***Sunfiber is a registered trademark of Taiyo International.

Life's First Naturals PRO Colostrum Quality Assurances

- Exclusively USDA Grade A Dairies
- Gluten-Free
- Made In the USA
- Guaranteed First 24-Hour Milking
- Halal/Kosher-Certified
- Small batch testing/standardization
- Our colostrum is fully tested to meet healthcare provider standards using our “in-house” High-Performance Liquid Chromatography (HPLC) units.



Connect with Us!

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Website: www.pantheryxpro.com



Clinical References

Digestive/Gut Health

Ash, M. Colostrum meets the microbiome a tried and true remedy for gut health takes centre stage. Clinical Education. (n.d.-a) from Allergy Research Group Newsletter, May 2014. <https://www.clinicaleducation.org/resources/reviews/colostrum-meets-the-microbiome-a-tried-and-true-remedy-for-gut-health-takes-center-stage/>

Menchetti L;Traina G;Tomasello G;Casagrande-Proietti P;Leonardi L;Barbato O;Brecchia G; (n.d.). Potential benefits of colostrum in gastrointestinal diseases. Frontiers in bioscience (Scholar edition). <https://pubmed.ncbi.nlm.nih.gov/27100711/>

Buttar HS et al; Dairy in human health and disease across the lifespan. Academic Press, 2017; Jan 1:3-20

McGrath, B. A., Fox, P. F., McSweeney, P. L. H., & Kelly, A. L. (2015a, September 14). Composition and properties of Bovine Colostrum: A Review - Dairy Science & Technology. SpringerLink. <https://link.springer.com/article/10.1007/s13594-015-0258-x>

Playford RJ;MacDonald CE;Calnan DP;Floyd DN;Podas T;Johnson W;Wicks AC;Bashir O;Marchbank T; (n.d.-a). Co-administration of the health food supplement, Bovine Colostrum, reduces the acute non-steroidal anti-inflammatory drug-induced increase in intestinal permeability. Clinical science (London, England : 1979). <https://pubmed.ncbi.nlm.nih.gov/11352778/>

Immune Support

Cesarone et al, prevention of influenza episodes with colostrum compared with vaccination in healthy and highrisk cardiovascular subjects: the epidemiologic study in San Valentino, 2007 Clinical and Applied Thrombosis/Hemastasis 13(2) 130-136

Ulfman, L. H., Leusen, J. H. W., Savelkoul, H. F. J., Warner, J. O., & van Neerven, R. J. J. (2018a, May 30). Effects of bovine immunoglobulins on immune function, allergy, and Infection. *Frontiers*. <https://www.frontiersin.org/articles/10.3389/fnut.2018.00052/full>

Jones AW;Cameron SJ;Thatcher R;Beecroft MS;Mur LA;Davison G; Effects of bovine colostrum supplementation on upper respiratory illness in active males. *Brain, Behavior Immunology*, Jul 2014; 39:194-203. . <https://pubmed.ncbi.nlm.nih.gov/24200515/>

Brinkworth,G.D., Buckley, J.D., Concentrated bovine colostrum protein supplementation reduces the incidence of self-reported symptoms of upper respiratory tract infection in adult males. *European Journal of Nutrition*, Aug 2003, 42 (4): 228-32. <https://pubmed.ncbi.nlm.nih.gov/12923655/>

Cesarone et al, prevention of influenza episodes with colostrum compared with vaccination in healthy and highrisk cardiovascular subjects: the epidemiologic study in San Valentino, 2007 Clinical and Applied Thrombosis/Hemastasis 13(2) 130-136

Ulfman, L. H., Leusen, J. H. W., Savelkoul, H. F. J., Warner, J. O., & van Neerven, R. J. J. (2018a, May 30). Effects of bovine immunoglobulins on immune function, allergy, and Infection. *Frontiers*. <https://www.frontiersin.org/articles/10.3389/fnut.2018.00052/full>

Jones AW;Cameron SJ;Thatcher R;Beecroft MS;Mur LA;Davison G; Effects of bovine colostrum supplementation on upper respiratory illness in active males. *Brain, Behavior Immunology*, Jul 2014; 39:194-203. . <https://pubmed.ncbi.nlm.nih.gov/24200515/>

Brinkworth,G.D., Buckley, J.D., Concentrated bovine colostrum protein supplementation reduces the incidence of self-reported symptoms of upper respiratory tract infection in adult males. *European Journal of Nutrition*, Aug 2003, 42 (4): 228-32. <https://pubmed.ncbi.nlm.nih.gov/12923655/>

Ulfman LH;Leusen JHW;Savelkoul HFJ;Warner JO;van Neerven RJJ; (n.d.). Effects of bovine immunoglobulins on immune function, allergy, and Infection. *Frontiers in nutrition*. [Add a little bit of body text](#)

Jones AW;Cameron SJ;Thatcher R;Beecroft MS;Mur LA;Davison G; Effects of bovine colostrum supplementation on upper respiratory illness in active males. *Brain, Behavior Immunology*, Jul 2014; 39:194-203. . [Add a little bit of body text](#)

Brinkworth,G.D., Buckley, J.D., Concentrated bovine colostrum protein supplementation reduces the incidence of self-reported symptoms of upper respiratory tract infection in adult males. *European Journal of Nutrition*, Aug 2003, 42 (4): 228-32. <https://pubmed.ncbi.nlm.nih.gov/12923655/>

Ash, M. Colostrum meets the microbiome a tried and true remedy for gut health takes centre stage. *Clinical Education*. (n.d.-a) from Allergy Research Group Newsletter, May 2014. [Add a little bit of body text](#)

Menchetti L;Traina G;Tomasello G;Casagrande-Proietti P;Leonardi L;Barbato O;Brecchia G; Potential benefits of colostrum in gastrointestinal diseases. *Frontiers in Bioscience (Scholar edition)*, Jun 2016, 8(2): 331-51. [Add a little bit of body text](#)

Buttar HS et al; Dairy in human health and disease across the lifespan. Academic Press, 2017; Jan 1:3-20

McGrath, B. A., Fox, P. F., McSweeney, P. L. H., & Kelly, A. L.. Composition and properties of Bovine Colostrum: A Review, *Dairy Science & Technology*, Sept 2015, 96, 133-158. <https://link.springer.com/article/10.1007/s13594-015-0258-x>

Playford RJ;MacDonald CE;Calnan DP;Floyd DN;Podas T;Johnson W;Wicks AC;Bashir O;Marchbank T, Co-administration of the health food supplement, Bovine Colostrum, reduces the acute non-steroidal anti-inflammatory drug-induced increase in intestinal permeability. *Clinical science (London, England)*, June 2001, 100 (6): 627-33. <https://pubmed.ncbi.nlm.nih.gov/11352778/>

Upper Respiratory Health

(Ulfman, et al, 2018, *Frontiers in Nutrition*(5), 1-20)

(Uchida K, et al 2010, *Journal of Japanese Society Clinical Nutrition*, 31, 122-127)

(Brinkworth, G, Buckley, *European Journal of Nutrition* 20203 42:228-32 Concentrated bovine colostrum protein supplementation reduces incidences of self reported symptoms of upper respiratory tract infection in adult males)

Early Life Nutrition

Zhang, T; et al, Study of the Effect of Bovine Colostrum Extract on Immunological Function of Children, Jiangsu Health Care, December 1999, vol. 1 no. 3.

Saad K;Abo-Elela MGM;El-Baseer KAA;Ahmed AE;Ahmad FA;Tawfeek MSK;El-Houfey AA;Aboul Khair MD;Abdel-Salam AM;Abo-Elgheit A;Qubaisy H;Ali AM;Abdel-Mawgoud E; . Effects of bovine colostrum on recurrent respiratory tract infections and diarrhea in children. *Medicine*, September 2016, 95 (37)

Zhang, T; et al, Study of the Effect of Bovine Colostrum Extract on Immunological Function of Children, Jiangsu Health Care, December 1999, vol. 1 no. 3.

Saad K;Abo-Elela MGM;El-Baseer KAA;Ahmed AE;Ahmad FA;Tawfeek MSK;El-Houfey AA;Aboul Khair MD;Abdel-Salam AM;Abo-Elgheit A;Qubaisy H;Ali AM;Abdel-Mawgoud E; Effects of bovine colostrum on recurrent respiratory tract infections and diarrhea in children. *Medicine*, September 2016, 95 (37)

A., Zhang, T; et al, Study of the Effect of Bovine Colostrum Extract on Immunological Function of Children, Jiangsu Health Care, December 1999, vol. 1 no. 3.

Saad K;Abo-Elela MGM;El-Baseer KAA;Ahmed AE;Ahmad FA;Tawfeek MSK;El-Houfey AA;Aboul Khair MD;Abdel-Salam AM;Abo-Elgheit A;Qubaisy H;Ali AM;Abdel-Mawgoud E; . Effects of bovine colostrum on recurrent respiratory tract infections and diarrhea in children. *Medicine*, September 2016, 95 (37)

A. Zhang, T; et al, Study of the Effect of Bovine Colostrum Extract on Immunological Function of Children, Jiangsu Health Care, December 1999, vol. 1 no. 3.

Saad K;Abo-Elela MGM;El-Baseer KAA;Ahmed AE;Ahmad FA;Tawfeek MSK;El-Houfey AA;Aboul Khair MD;Abdel-Salam AM;Abo-Elgheit A;Qubaisy H;Ali AM;Abdel-Mawgoud E; Effects of bovine colostrum on recurrent respiratory tract infections and diarrhea in children.

Medicine, September 2016, 95 (37)

Uchida K et al, Bovine Late Colostrum Supplement Reduces Symptoms of Upper Respiratory Tract Infection in Infant, *Japanese Journal of Clinical Nutrition*, 2010, 31 (4) ; 585-591

Zhang, T; et al, Study of the Effect of Bovine Colostrum Extract on Immunological Function of Children, Jiangsu Health Care, December 1999, vol. 1 no. 3.

Saad K;Abo-Elela MGM;El-Baseer KAA;Ahmed AE;Ahmad FA;Tawfeek MSK;El-Houfey AA;Aboul Khair MD;Abdel-Salam AM;Abo-Elgheit A;Qubaisy H;Ali AM;Abdel-Mawgoud E; . Effects of bovine colostrum on recurrent respiratory tract infections and diarrhea in children. *Medicine*, September 2016, 95 (37)

Sports Nutrition

Jones, A.W., March, D.S., Curtis, F., Bridle, C., Bovine colostrum supplementation and upper respiratory symptoms during exercise training: A systematic review and meta-analysis of randomised controlled trials, *BMC Sports Science, Medicine & Rehabilitation*, November 2016, 8, 21. <https://pubmed.ncbi.nlm.nih.gov/27462401/>

Kotsis Y, Mikellidi, A., Aresti, C., Persia, E., A low-dose, 6-week bovine colostrum supplementation maintains performance and attenuates inflammatory indices following a Loughborough Intermittent Shuttle Test in soccer players, *European Journal of Nutrition*, April 2018, 57 (1):1181-1195

Duff, W.R., Chilibeck, P.D., Rooke, J.J. , Kaviani, M., Krentz, J.R., Haines, D.M., The effect of bovine colostrum supplementation in older adults during resistance training, *International Journal of Sports Nutrition and Exercise Metabolism*, 2013, vol 24, issue 3: 276-285. <https://pubmed.ncbi.nlm.nih.gov/24281841/>

Buckley, J.D., Abbott, M.J., Brinkworth, G.D, Bovine colostrum supplementation during endurance running training improves recovery, but not performance, *Journal of Science and Medicine in Sport*, June 2002, vol 5, issue 2: 65-79. <https://pubmed.ncbi.nlm.nih.gov/12188088/>

McGrath, B. A., Fox, P. F., McSweeney, P. L. H., & Kelly, A. L.. Composition and properties of Bovine Colostrum: A Review, *Dairy Science & Technology*, Sept 2015, 96, 133-158. <https://link.springer.com/article/10.1007/s13594-015-0258-x>

Hałasa, M., Maciejewska, D., Baśkiewicz-Hałasa, M., Machaliński, B., Safranow, K. ,Stachowska, E., Oral supplementation with bovine colostrum decreases intestinal permeability and stool concentrations of zonulin in athletes. *Nutrients*, March 2017, 9(4): 370. <https://pubmed.ncbi.nlm.nih.gov/28397754/>

Skin Health

Kshirsagar AY, Vekariya MA, Gupta V, Pednekar AS, Mahna A, Patankar R, Shaikh A, Nagur B. A comparative study of colostrum dressing versus conventional dressing in deep wounds. *Journal of Clinical Diagnosis Research*, April 2015, 9(4):PC01-4. doi: 10.7860/JCDR/2015/12004.5739. Epub 2015 Apr 1. PMID: 26023589; PMCID: PMC4437104.

Jogi, R., Tager, M.J., Perez, D., Tsapekos, M., Bovine Colostrum, Telomeres, and Skin Aging, *Journal of Drugs in Dermatology*, May 2021, Vol 20, Issue 5.

Dental/Oral Microbiome

Avery, T.M., Boone, R.L., Lu J., Spicer, S.K., Guevara, M.A., Moore, R.E., Chambers S.A., Manning, S.D., Dent, L., Marshall, D., Damo, S.M., Townsend, S.D., Gaddy, J.A., Analysis of antimicrobial and antibiofilm activity of human milk lactoferrin compared to bovine lactoferrin against multidrug resistant and susceptible acinetobacter baumannii clinical isolates, . *ACS Infectious Diseases*, June 2021, 7, 8, 2116-2126. <https://pubmed.ncbi.nlm.nih.gov/34105954/>

Pet Health

Giffard, C. J., Seino, M. M., Markwell, P. J., & Bektash, R. M., Benefits of bovine colostrum on fecal quality in recently weaned puppies. *The Journal of Nutrition*, August 2004, 134 (8): 2126S-2127S.. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7107473/>

Satyaraj E;Reynolds A;Pelker R;Labuda J;Zhang P;Sun P; Supplementation of diets with bovine colostrum influences immune function in dogs, *The British Journal of Nutrition*, December 2013, 110 (12): 2216-21.. <https://pubmed.ncbi.nlm.nih.gov/23773360/>

Stelwagen, K., Carpenter, E., Haigh, B., Hodgkinson, A., & Wheeler, T., Immune components of bovine colostrum and milk, *Journal of Animal Science*, April 2009, vol 87, issue 13: 3-9 <https://www.semanticscholar.org/paper/Immune-components-of-bovine-colostrum-and-milk.-Stelwagen-Carpenter/44479ab565f20fe8dd8803700c39a02ed37bf17d?p2df>

Giffard, C. J., Seino, M. M., Markwell, P. J., & Bektash, R. M., Benefits of bovine colostrum on fecal quality in recently weaned puppies. *The Journal of Nutrition*, August 2004, 134 (8): 2126S-2127S.. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7107473/>

Roffler B., Fäh A., Sauter S. N., Hammon H. M., Gallmann P., Brem G. & Blum J. W. Intestinal morphology, epithelial cell proliferation, and absorptive capacity in neonatal calves fed milk-born insulin-like growth factor-I or a colostrum extract. *J. Dairy Science*, 2003, 86: 1797–1806. [PubMed] [Google Scholar]

Gore, A.M., Satyaraj, E., Labuda, J., Engler, R., Sun, P., Kerr, W., Conboy-Schmidt, L., Supplementation of Diets with Bovine Colostrum Influences Immune and Gut functions in Kittens, *Frontiers in Veterinary Science*, August 1021, 8:675712

Nestlé Purina Scientific Update on nutrition. feline nutritional peculiarities in health and disease. PDF Free Download. (n.d.-a). <https://docplayer.net/40099972-Nestle-purina-scientific-update-on-nutrition-feline-nutritional-peculiarities-in-health-and-disease.html>

Jean-Philippe, C. Beneficial effects of dietary colostrum supplementation in kittens, *Nestlé Purina Scientific Update of Feline Nutrition*, Issue 4, 1–8.

Nestlé Purina Scientific Update on nutrition. feline nutritional peculiarities in health and disease. PDF Free Download. (n.d.-a). <https://docplayer.net/40099972-Nestle-purina-scientific-update-on-nutrition-feline-nutritional-peculiarities-in-health-and-disease.html>

Gore, A.M., Satyaraj, E., Labuda, J., Engler, R., Sun, P., Kerr, W., Conboy-Schmidt, L., Supplementation of Diets with Bovine Colostrum Influences Immune and Gut functions in Kittens, *Frontiers in Veterinary Science*, August 1021, 8:675712

Nestlé Purina Scientific Update on nutrition. feline nutritional peculiarities in health and disease. PDF Free Download. (n.d.). <https://docplayer.net/40099972-Nestle-purina-scientific-update-on-nutrition-feline-nutritional-peculiarities-in-health-and-disease.html>