



PALMITIC FAT INGREDIENTS

from a producer with leading
sustainability commitments



Healthy, productive livestock

Farmers today face growing challenges, from ensuring animal welfare and reducing their carbon footprint to improving efficiency and managing rising costs.

GoNutri is the animal nutrition brand of Golden Agri-Resources (GAR), a leading palm-based agribusiness committed to sustainability. It provides farmers with high-quality, sustainably sourced palm-based feed fat supplements that enhance productivity, fertility, and animal health, while meeting internationally recognized standards, including GMP+, FSA, and RSPO.

Since its launch in 2021, **GoNutri** has been marketed globally, supporting farmers and producers worldwide with premium animal feed solutions.

GoNutri offers two product lines:

- Energy – Enhancing performance and efficiency
- Protect – Supporting animal health and resilience



ABOUT GAR

Golden Agri-Resources (GAR) is one of the world's largest seed-to-shelf agribusinesses.

For nearly three decades, we and our subsidiaries have been at the forefront of responsible palm oil production. Together with Sinar Mas Agribusiness and Food, our business operation in Indonesia, we grow oil palms with farmers and produce food and fuel for today and the future with sustainability at the heart of our operation.



We deliver products to over 100 countries worldwide, including China, India and the USA as well as various destinations in Europe, Latin America, and the Middle East.

As a global leader in palm oil production, we manage more than half a million hectares of plantations, including smallholder estates, across Indonesia.

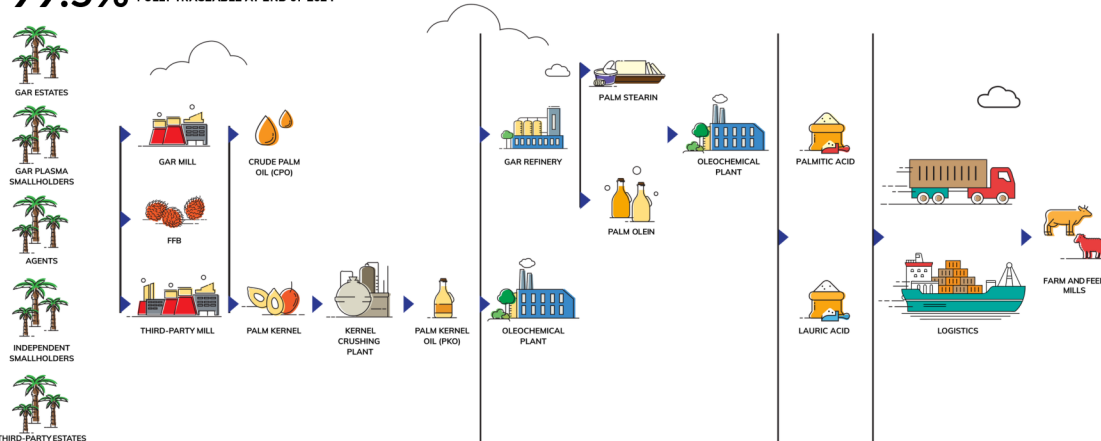
Our downstream refining and specialty product facilities manufacture high-quality goods for the global food, oleochemical, animal feed, and bioenergy markets.

The vertical integration of our operations ensures efficiency, quality and sustainability across our supply chain, making GAR the partner of choice.

Sustainably sourced

Full Traceability Across the Supply Chain

99.5% INDONESIAN PALM OIL SUPPLY CHAIN
FULLY TRACEABLE AT END OF 2024*



*The sustainability information has been externally assured for FY2024.

GoNutri's products contain palm-based ingredients that are sustainably sourced.

GAR's Social and Environmental Policy ensures its operations:

- Abide by the highest standards of quality and integrity
- Protect biodiverse ecosystems, including forests, safeguarding the health of our planet and its population
- Bring benefit to the people and communities
- Respect and strengthen the rights of workers
- Support smallholders for a more transparent supply chain

GoNutri Energy

For a nutritious, high-energy diet

GoNutri Energy range delivers highly concentrated energy source for ruminants. Based on the diets' objective, GoNutri Energy provides the right balance between increasing milk fat percentage, milk production, fertility, and energy.

Fats are essential nutrients for animals. In addition to providing a concentrated source of energy, they play a crucial role in the animals structural and metabolism-regulating functions. Fats are integral to cell membranes and are essential for hormone production, vitamin absorption, nutrient transport, and other physiological functions.

Incorporating fats into the diet of high-producing dairy cows enhances energy intake, leading to increased milk and milk fat production. Additionally, it has a positive impact on overall animal health, fertility, and body condition.

GoNutri Energy products contain high levels of palmitic acid, a long-chain saturated fatty acid naturally found in ruminant milk and meat. This makes it a safe and effective addition to their diets.

GoNutri Energy products have a neutral odor and taste and are inert in the rumen, meaning they do not alter rumen flora or fermentation.

Additionally, their highly saturated-nature ensures they do not negatively

impact dry matter intake. The stable fatty acid composition of GoNutri Energy provides consistent and predictable results, allowing farmers to accurately anticipate performance outcomes, from ruminal behavior to milk fat levels.

Recommended Dosage

The suggested dosage is approximately 1.5% of dry matter intake (around 350–450 grams / 0.77-0.99 lbs per cow per day). At these levels, milk fat production can increase by 3-5%.

Benefits of GoNutri Energy

- **Dairy Cattle:** Improves milk yield, enhances milk fat production, and increases fiber and organic matter digestibility.
- **Beef Cattle:** Enhances fat infiltration and boosts oleic acid content in muscle tissue, contributing to higher meat quality and economic returns.
- **Superior Digestibility:** The free fatty acids in GoNutri Energy products are more digestible in the ruminant intestine compared to triglycerides, ensuring better nutrient absorption and greater energy availability.

Contact us to learn about GoNutri Protect

Product	GoNutri Energy 98	GoNutri Energy 90	GoNutri Energy 85	GoNutri Balance
Info	Our highest palmitic acid formula (min. 98%) in free fatty acid form - ideal for maximizing milk fat production and energy supply. Rumen-stable and highly digestible.	A rich source of palmitic acid (min. 90%) with a touch of C18 fatty acids - in free fatty acid form. Delivers reliable energy support while helping improve overall animal performance.	A rich source of palmitic acid (min. 85%) with a touch of C18 fatty acids - in free fatty acid form. Delivers reliable energy support while helping improve overall animal performance.	Balanced formulation of > 55% palmitic acid and stearic acid in free fatty acid form. Designed to support energy demands while maintaining body reserves and enhancing lactation performance.
Milk Yield	+++	+++	+++	+++
Milk Fat	++++	+++	+++	++
Body Condition	N/A	+	+	++
Dosage*	 Dairy 300-700g /0.66-1.54 lbs/cow/day  Sheep 40-80g /0.088-0.18 lbs/sheep/day  Beef 150-300g /0.33-0.66 lbs/head/day			
Blend	Palmitic Acid: Min. 98%	Palmitic Acid: Min. 90%	Palmitic Acid: Min. 85%	Palmitic Acid: 55%
	Crude Fat: Min. 99%			
	Moisture: Max. 1%			
Form	Bead or Flake			
Packaging	 25kg / 55 Lbs paper bags  650kg / 1433 Lbs bulk bags			

*Recommended



Benefits at-a-glance

- Easily digested in ruminants at the intestine level ²
- Provides a high energy value (99%) ³
- Improves milk production and quality ⁴
- Improves fertility and body condition of animals ⁵
- Improves the digestibility of detergent neutral fibre and energy efficiency ⁶



Adrián González Garrido
Ruminant Nutrition Consultant

GoNutri Energy is a reliable product that consistently improves milk fat and overall production. It enhances dietary energy balance and feed efficiency. I've seen measurable results across the farms I work with.



Pablo Larrosa
General Manager - ElBarranquillo

GoNutri Energy lifted our milk fat to 3.8% in winter and keeps it above 3.4% in summer. It mixes in perfectly, its supply is reliable, and after three years of steady gains I confidently recommend it to any dairy.

GoNutri
by GAR

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²J de Souza & A L Lock. Milk production and nutrient digestibility responses to triglyceride or fatty acid supplements enriched in palmitic acid. Department of Animal Science, Michigan State University, East Lansing 48824 (2019)

³B. Loftén, J C Linn, J K Drackley, T C Jenkins, C C Soderholm, & A F Kertz. Invited review: Palmitic and stearic acid metabolism in lactating dairy cows. Milk Specialties Global, Eden Prairie MN 55344; Department of Animal Sciences, University of Illinois, Urbana 61801; Department of Animal and Veterinary Sciences, Clemson University, Clemson, SC 29634; Andhil LLC, St. Louis, MO 63122 (2014)

⁴P Plantoni, A L Lock, & M S Allen. Palmitic acid increased yields of milk and milk fat and nutrient digestibility across production level of lactating cows. Department of Animal Science, Michigan State University, East Lansing 48824 (2017)

⁵C P Staples, J M Burke, & W W Thatcher. Influence of supplemental fats on reproductive tissues and performance of lactating cows. Department of Dairy and Poultry Sciences, University of Florida, Gainesville 32611 (1998)

⁶P Plantoni, A L Lock, & M S Allen. Palmitic acid increased yields of milk and milk fat and nutrient digestibility across production level of lactating cows. Department of Animal Science, Michigan State University, East Lansing 48824 (2017)