

The Power of 3

Palmitic
for Milk Fat

Oleic
**for ECM &
Body Condition**

EPA/DHA Omega-3s
**for Repro, ECM
& Immune**



The best fatty acid combination
for all her needs.

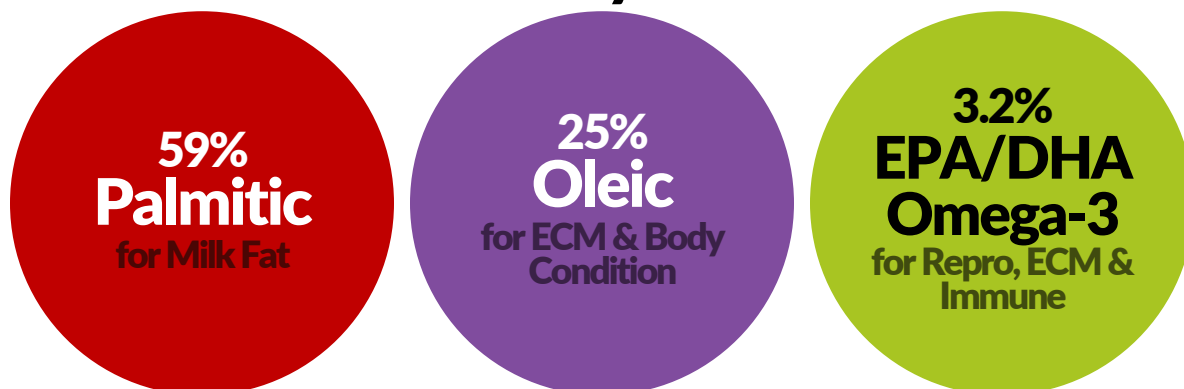
VIRTUSNUTRITION.COM/ENERG-3



Simply Feed a Better Balance

EnerG-3 provides the best balance of Palmitic, Oleic and EPA/DHA Omega-3 for cows across stages of lactation, so you can **simply feed a better balance**.

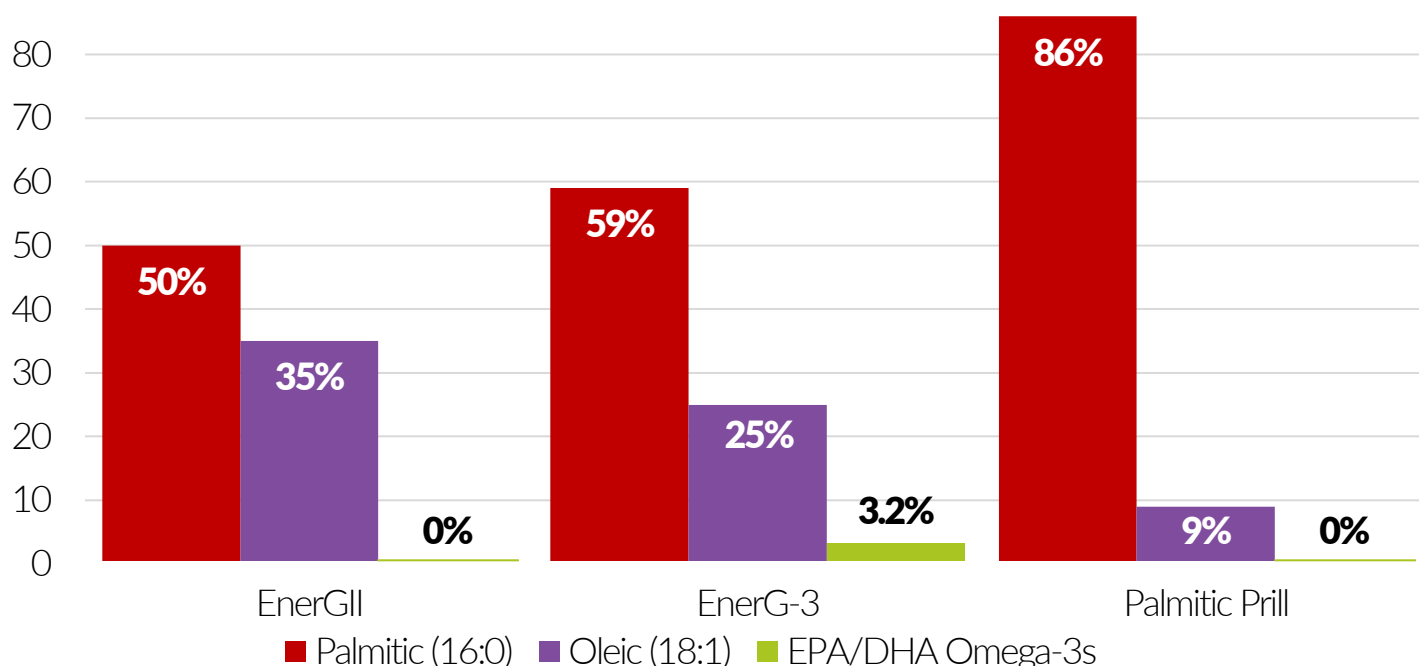
What are the main fatty acids in EnerG-3?



EnerG-3 provides a balance of ALL key fatty acids in one product.

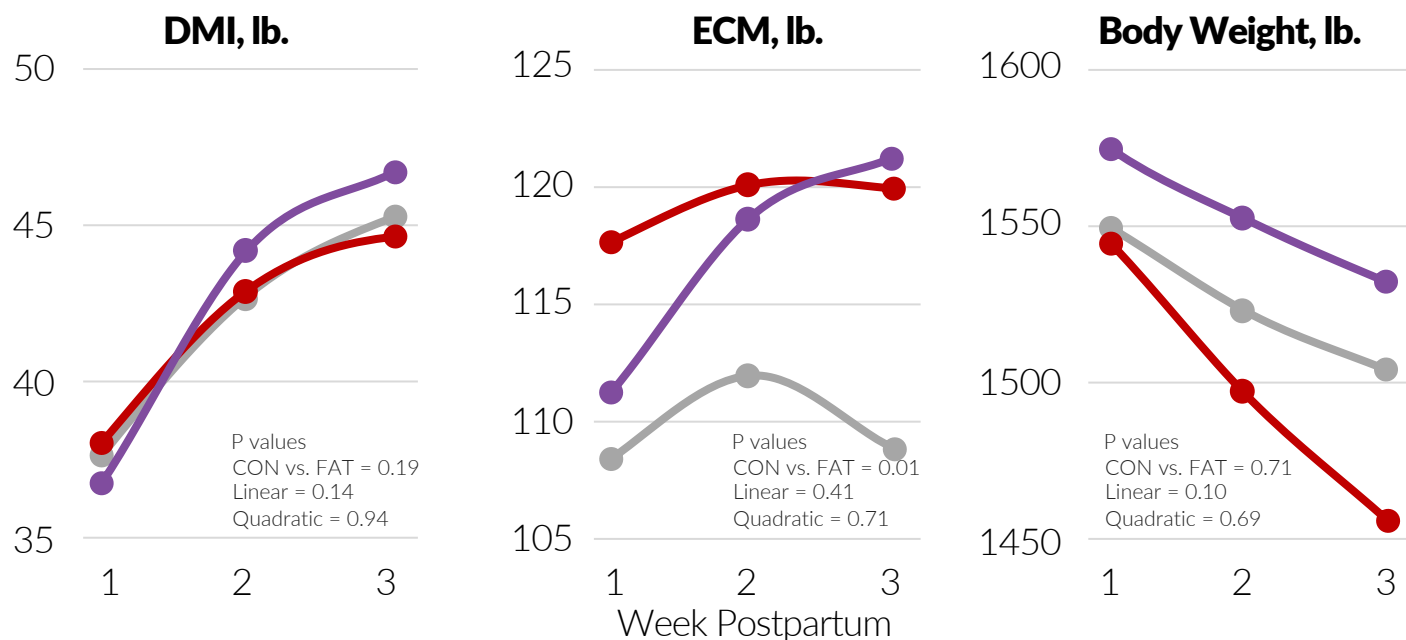
- Delivers essential EPA/DHA Omega-3s for reduced inflammation, improved embryo retention and energy for milk, alongside higher Palmitic for milk fat.
- Improved ease of use and consistency with all three fatty acids in one (no blending of multiple products required to meet the cow's needs).
- Designed to be fed across stages of lactation for improved health and productivity.

How does EnerG-3 compare to the alternatives?



Palmitic & Oleic

Cows fed more Oleic and moderate Palmitic (60:30) increased ECM and DMI, while losing less body condition vs. the control and high Palmitic treatment (80:10).

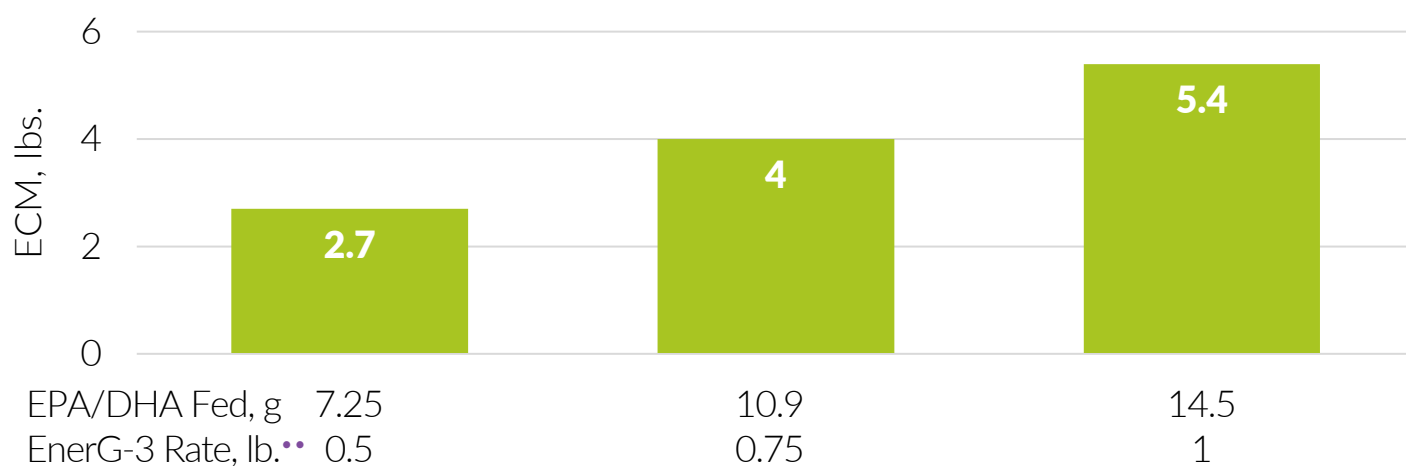


● 80% Palmitic: 10% Oleic ● 60% Palmitic: 30% Oleic ● Control (no supplemental fat)

• de Souza, Prom & Lock, Michigan State, American Dairy Science Association 2018

EPA/DHA Omega-3s

ECM RESPONSE TO EPA/DHA OMEGA-3S EARLY LACTATION •



• Results were from studies of CA Salts of EPA/DHA. Adapted from Bilby et. al., University of FL, 2006; Moussavi, et. al., Cornell University, 2007; Santos, Greco, et. al., U of FL, 2013

•• The EnerG-3 feeding rate to deliver equivalent grams of EPA/DHA omega-3s.



Reproductive Improvements
 ↓ Early Aborts ↑ Early Conception Rate



Cost & Breakeven

Added Cost/Ton vs. Alternatives	Added Cost/Cow/Day @1/2 lb. Rate	Breakeven Milk @\$15/cwt < 1 lb. Across All Scenarios
\$100	2.5 cents	.17 lb.
\$200	5 cents	.33 lb.
\$300	7.5 cents	.5 lb.
\$400	10 cents	.67 lb.
\$500	12.5 cents	.83 lb.

vs. Benefits

- 2.7 lb. more milk* vs. calcium salt
- Improved reproductive and immune health with EPA/DHA omega-3s
- Higher Palmitic for milk fat support
- Significant Oleic levels for improved feed efficiency, ECM, and body condition

*Adapted from Moussavi, et. al., Cornell University, 2007; Santos, Greco, et. al., University of FL, 2013.

[VIRTUSNUTRITION.COM/ENERG-3](https://virtusnutrition.com/enerG-3)

Milk, Milk Fat & Repro: You CAN have it all.

Get started with the Road
Map to Fatty Acid Balancing
virtusnutrition.com/roadmap

Road Map to Fatty Acid Balancing

Palmitic to Oleic Balance
Improve milk fat, milk & body condition

Palmitic
16:0

↑ milk
fat more
than milk
yield

Oleic
18:1

↑ digestibility
of all fatty acids,
milk production
& body condition

1% Palmitic and
1% Oleic for
balanced energy
partitioning (P/D/M)

Manage 18:2 & Rumen Exposure
Too much 18:2 = ↓ milk fat production

Linoleic
18:2

Found in corn, corn silage,
distillers, cottonseed
Too much unprotected 18:2 = ↓ milk fat

300+ grams is
considered a milk
fat risk factor

Omega-6 to Omega-3 Balance
Improve immune health, milk & repro

Omega-6
18:2

Inflammatory
= lost energy
to immune

Omega-3
EPA
DHA

Anti-
inflammatory =
↑ milk & repro

5:1 or ↓ ratio for
optimal results in
lactating cows