

Ruminant
Specialties and
Solutions



DynOmik™

Means More DMI and Milk

Disruptive DynOmik technology introduces a new, all-natural flavorant that encourages more nutrient intake and positively impacts milk production from transition through peak lactation while increasing herd sustainability with a smaller carbon footprint.



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Introducing disruptive technology... in a nut shell.



A unique breakthrough in the process for producing cashew nut shell extract (CNSE) followed extensive research. This led to the development of a significant new patented flavorant for use with dairy herds. This flavorant encourages more

nutrient intake and positively impacts milk production and sustainability. See table to right.



Increasing dry matter

Greater DMI and nutrient load influences VFA production

Item	DynOmik™ (µg/mL)				SEM	P-value for dose dependency	
	0	50	100	200		Linear	Quadratic
Total VFA, mM	115 ^b	127 ^{ab}	127 ^a	125 ^{ab}	1.4	0.14	0.05
Acetate, mM	50 ^a	51 ^a	51 ^a	43 ^b	0.7	0.11	0.03
Propionate, mM	27 ^c	31 ^b	37 ^a	39 ^a	0.6	0.04	0.01
Butyrate, mM	16 ^b	17 ^a	16 ^b	14 ^c	0.2	0.21	0.04
pH	6.59 ^a	6.48 ^b	6.40 ^c	6.48 ^b	0.01	0.21	0.05

^{a-c} Means within a row with different superscripts differ ($P < 0.05$)

Conducted as a semi-continuous culture experiment

Watanabe et al., 2010. *J. Dairy Sci.* 93:5258

And supports dairy sustainability



decreases CARBON FOOTPRINT

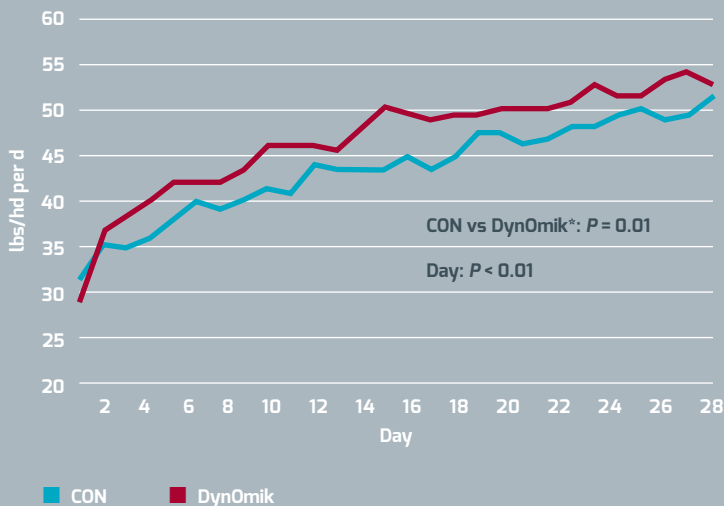
PLANT-BASED
cashew co-product

MORE MILK
per cow

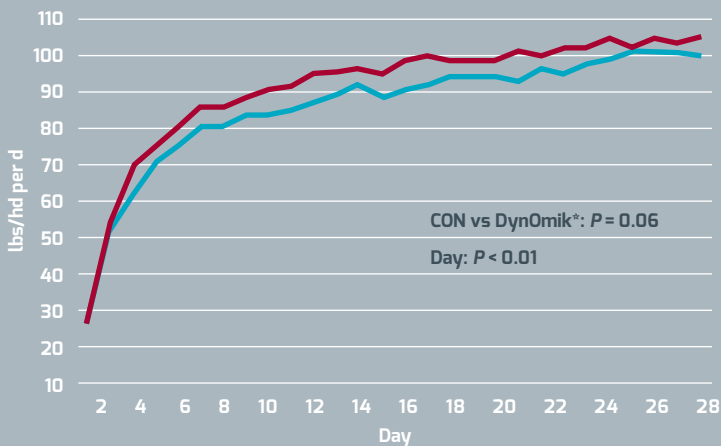
LESS METHANE
per unit of milk

intake in fresh cows creates the foundation for better performance and cow health

Effect of DynOmik on DMI postpartum
+3.4 lb/d DynOmik



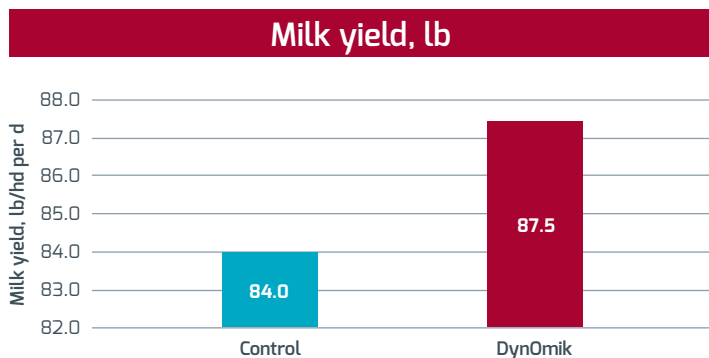
Effect of DynOmik on milk yield
+5.5 lb/d DynOmik



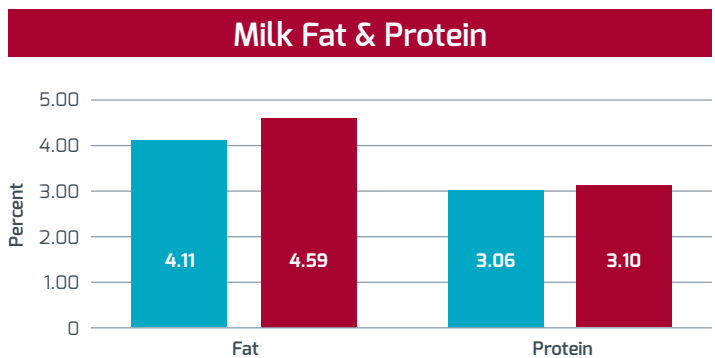
Goetz et al. 2020. J. Dairy Sci. 103 (Suppl. 1):71
 * Average of results for 2.5 g and 5.0 g fed/cow/day

On-farm confirmation of university results

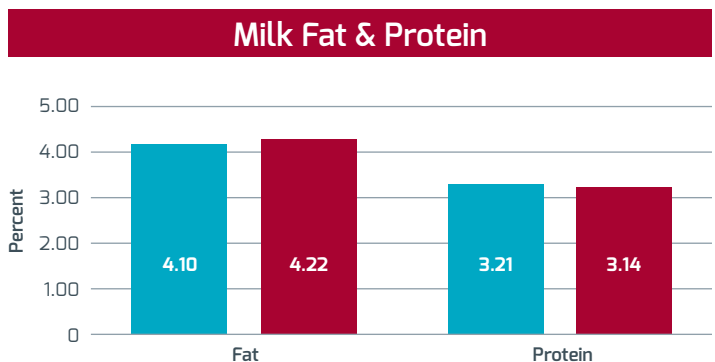
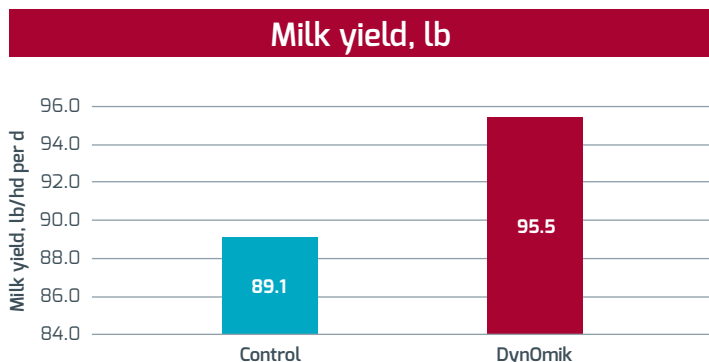
DAIRY 1: 1500 cows at transition



Control DynOmik



DAIRY 2: 1500 cows at transition



Product Information

Description

Recommended Feeding Rate	DynOmik™ 5g/head/day
Pelletability	Pelletable at up to 80°C (176°F)
Package Size	Box with 2-5 kg Bags
Shelf Life	24 Months
Particle Size	200 – 400 µm
Appearance	Granular
Color	Milky White to Brownish Red

Adisseo is committed to helping the feed industry find scientific and technical solutions to current field challenges.

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ADISSEO USA Inc. | One Point Royal | 4400 North Point Pkwy, Ste 275 | Alpharetta, GA 30022 | USA

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