

Reproduction starts with MEGALAC®-R

For more pregnant cows, the ABCs of reproduction start with R. MEGALAC®-R is a concentrated energy source and contains the two essential fatty acids—Omega-3 and Omega-6—the combination of which is crucial to the production of reproductive hormones.

Improved reproductive success

- Earlier cycles and larger, higher-quality embryos
- Enhanced visible signs of heat for improved heat detection and conception
- Improved uterine health and pregnancy maintenance for fewer abortions

Studies^{1,2} show more cows pregnant

- More cows pregnant by 126 days in milk (DIM)
- Cumulative pregnancy spiked by up to 19.1 percent
- 21-day pregnancy rate jumped by up to five points

Absorption is key

The chemical composition of Omega-3 and Omega-6 in calcium salts of long chain fatty acids allows for maximum absorption—they are the only EFAs proven to improve reproduction.

- Omega-3
 - Aids production of prostaglandins
 - Fosters embryonic survival
 - Balances functions of Omega-6
- Omega-6
 - Aids production of prostaglandins
 - Promotes ovulation and sperm capacitation
 - Aids oviduct contraction
 - Maintains embryo implantation

More than reproduction

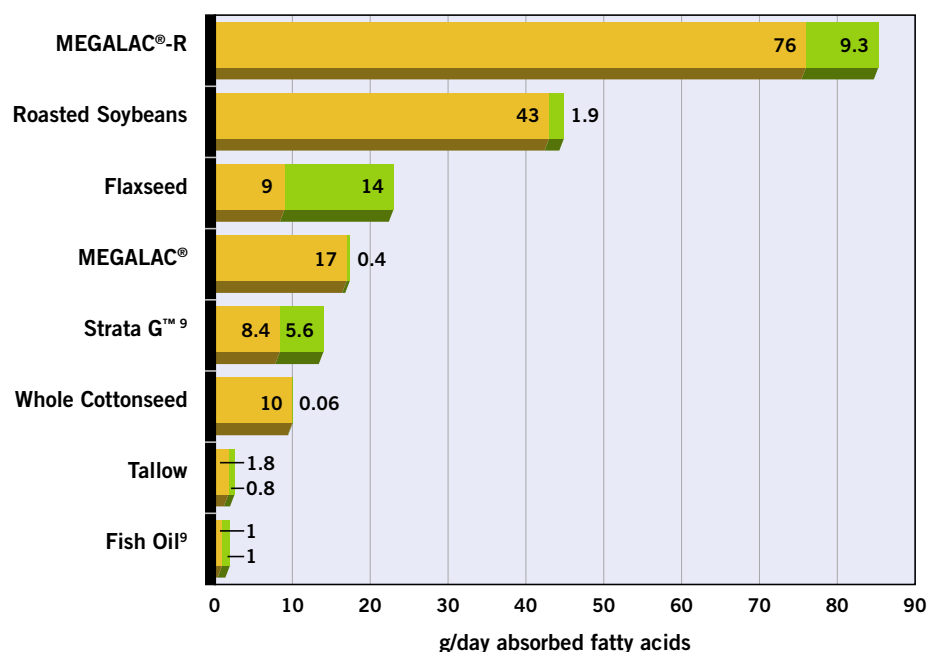
- Improved overall immune function, reducing incidence of metabolic disorders
- No milk fat depression—maintains production and milk quality^{3,4,5}

REDUCED INCIDENCE OF METABOLIC DISORDERS

Event	No. of Head		% Difference
	Control ⁶	MEGALAC-R	
Milk Fever	15	6	-60%
DAs	44	31	-29.5%

Intestinal absorption of Omega-3 and Omega-6 fatty acids (g/day) when cows are supplemented with 400g/day of fatty acids from various products^{7,8}

- Omega-6 (18:2 linoleic)
- Omega-3 (18:3 linolenic)



MEGALAC-R research-proven reproduction and more

	MEGALAC®-R	Strata G™	Fish Oil	Roasted Soybeans	Flax Seed	Tallow	Whole Cottonseed
Omega-6 absorption g/day	76.0	8.4 ⁹	1.0 ⁹	43.0	9.0	1.8	10.0
Omega-3 absorption g/day	9.3	5.6 ⁹	1.0 ⁹	1.9	14.0	0.8	0.06
Maintains dry matter intake (DMI)	+	+/-	-	+	+		+
Research-proven to improve number of cows pregnant	+						
Research-proven to improve uterine health	+						
Research-proven to improve immune function	+						
Research-proven to maintain milk, fat and protein production	+	+/-					

+ = Studies show positive results +/- = Studies vary with positive or negative results - = Studies show negative results

Feeding rates

- Three weeks prepartum—feed .25 lbs. to .5 lbs. per day
- Postpartum through confirmed pregnancy—feed .75 lbs. to 1 lb. per day
- Work with your nutritional advisor to incorporate MEGALAC-R into your pre- and postfresh diets.

For more pregnant cows, contact your ARM & HAMMER Dairy Nutrition Specialist,
your nutritionist or call 1-800-526-3563.



1 Overton M. 2005 Western Dairy Management Conference. *Proceedings*. p.51-53.
 2 *EFA Alert Research Summary*. p.21: Trial #1. Church & Dwight Co., Inc. 2002.
 3 Staples, Block E, et al. Effect of Long Chain Fatty Acids on lactation performance and reproductive tissues of Holstein cows. *J Dairy Sci* 2000;83(Suppl. 1)
 4 Theurer ML, et al. Calcium Salts of Polyunsaturated Fatty Acids Deliver More Essential Fatty Acids to the Lactating Dairy Cow. Paper presented at: Pacific Northwest Anim Nutr Conf; Oct. 8-10, 2002; Vancouver, Canada.
 5 Mudebuy, et al. Effect of feeding calcium salts of soybean oil or palm oil on milk yield, milk composition and reproductive performance by high producing dairy cows. *J Dairy Sci* 2002;85 (Suppl.1)

6 Control group fed MEGALAC Ruman Bypass Fat
 7 Moate, et al. A model to describe ruminal metabolism and intestinal absorption of long chain fatty acids. *Anim Feed Sci Techn* 2004;112:79-105.
 8 Moate, et al. Short Communication: Further Validation of the Fat Sub-Model in the Cornell-Penn-Miner Dairy Model. *J Dairy Sci* 2006;89:1052-1056.
 9 Estimated amounts

