

16:0

18:0

18:1

18:2

SATURATED

UNSATURATED

QUICK GUIDE TO FATTY ACIDS IN DAIRY FEED

PALMITIC

Supports milkfat more than milk yield 50% of Ca Salts

STEARIC

Unprotected 18:1-3 are converted to Stearic via rumen biohydrogenation Too much = lower digestibility of **total** fatty acids

OLEIC

Enhances digestibility of **all** fatty acids via micelle formation for greater milk, body condition 35% of Ca Salts

LINOLEIC OMEGA-6

Found in corn, corn silage, distillers, Prequel Inflammatory immune regulator Too much = CLA milk fat inhibitors produced*



LINOLENIC ALA OMEGA-3

Found in alfalfa, fresh grass, flax Anti- inflammatory immune regulator

EPA/DHA OMEGA-3

20:5 22:6

Found in fish meal, algae, Strata Anti-inflammatory immune regulator Significant milk and reproductive benefits

*18:1 and 18:3 have also been shown to affect production of CLA milk fat inhibitors, however typically at much lower contributions vs. 18:2.

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FATTY ACID FLOW FOR TYPICAL DAIRY DIET

OUTFLOW TO SMALL INTESTINE (g) RUMEN INTAKE (g) FATTY ACID SATURATED PALMITIC 16:0 150150 **STEARIC** 35 620 18:0 **JNSATURATED OLEIC** 205 18:1 INOLEIC 430 18:2 50 OMEGA-6 .INOLENIC 45 📑 5 18:3 OMEGA-3 20:5 DHA \bigcirc \cap 22:6 OMEGA-3

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Learn how to improve your balance at