

Smartamine[®] M: Nothing but the best in the field

KEY TAKEAWAY: Smartamine M replaced competitive products in 6 dairies, increasing milk protein and fat yield on 5 of the 6 farms. Smartamine M is still the smart choice; the attempt to “save” 3-5 cents with competitive products leaves significant money on the table.

Background: Commercial rumen-protected amino acid products have been evaluated through different bioavailability methods varying in precision and accuracy. The large range of bioavailability results makes it difficult for end-users to accurately determine the most cost-effective product. Based on manufacturer claims, competitive products may appear 3-5 cents/cow/day “cheaper” to deliver 10 grams of metabolizable methionine (mMET) compared to Smartamine M. However, independent research using the gold standard plasma free AA dose-response method at the University of New Hampshire indicates these products supply 2-3 times less than specified. Adisseo aligns with the gold standard method and puts it to the test in commercial conditions. If competitive product specs are inflated, replacing these products with Smartamine M would effectively increase methionine supply, improving cow performance.

An 8-month multi-farm trial was conducted and summarized below:



14 DAIRY FARMS

30,000+ cows
90 lbs, 4.3%, 3.3%

GROUP 1:
Product Swap
6 farms

GROUP 2:
Seasonality Control
8 farms



8-MONTH TRIAL (July to Feb)

Product Swap (see table)
Smartamine M replaced 2 competitive products in Nov by maintaining manufacturer claimed methionine in the diet

Seasonality Control
Farms kept the same diet, with competitive products, throughout period



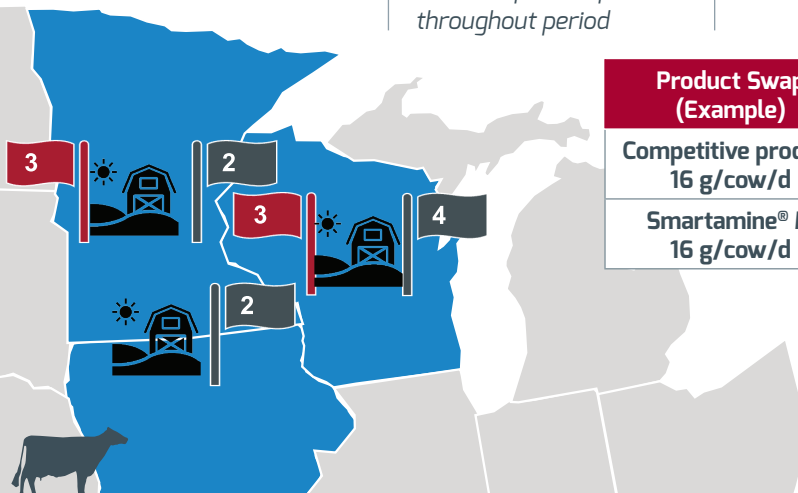
SEASONALITY ADJUSTMENT

Milk components from the Product Swap farms were adjusted for seasonality control



PRODUCT COMPARISON

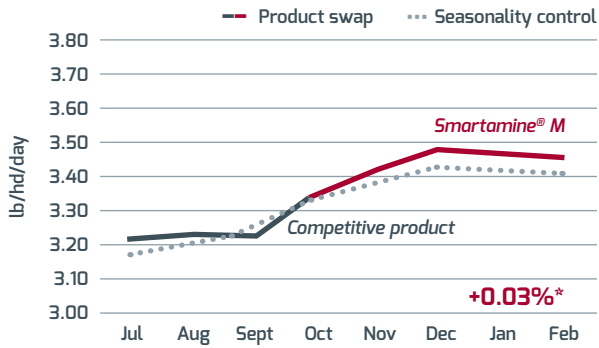
Milk component and yield differences between products were generated by comparing the season-adjusted data from July to Oct (competitive product) to the season-adjusted data from Nov to Feb (Smartamine M)



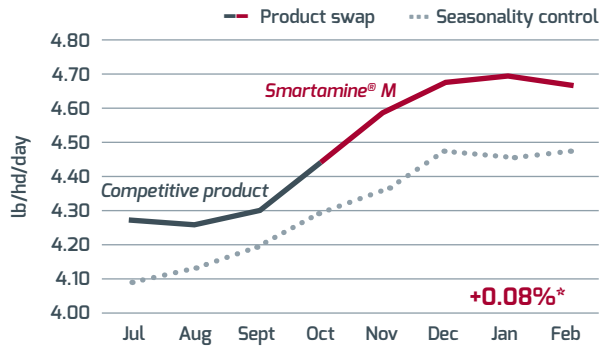
Product Swap (Example)	Manufacturer Claim	Measured mMET at UNH (Gold Standard Method)
Competitive product 16 g/cow/d	10 g mMet	3.1 g mMet
Smartamine [®] M 16 g/cow/d	10 g mMet	10 g mMet

+7g

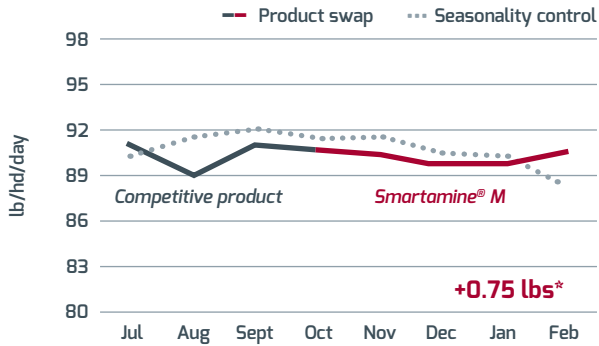
Milk protein %



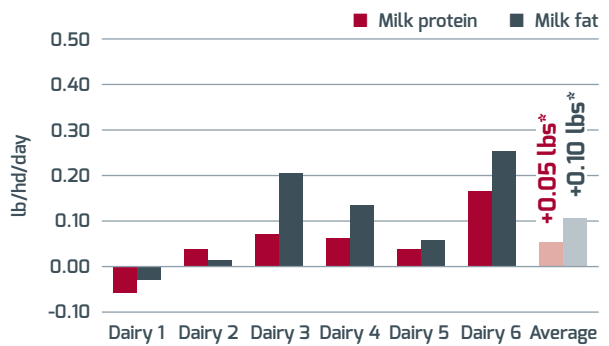
Milk fat %



Milk yield, lbs



Solids yield difference* from Smartamine[®] M vs. competitive product



*Average season-adjusted difference from Smartamine M relative to competitive product

Average improvements with Smartamine[®] M (vs. competitive products) were **+0.05 lbs milk protein** and **+0.10 lbs milk fat** equating to **\$0.31/cow/d** (as of April 2026). These findings highlight that **1) Not all methods are built the same:** Reliable methods are essential to accurately assess cost per unit of metabolizable amino acids; the University of New Hampshire method is the gold standard, **2) Specifications may be different than actual supply:** Overstated product values can lead to underfeeding methionine and lost production, and **3) Economics favor accuracy:** Small upfront savings (3-5 cents) can result in significantly larger downstream economic losses. Smartamine M remains the reference for delivering consistent, verified metabolizable methionine and maximizing return on investment.

Contact your local Adisseo rep to evaluate your current amino acid balancing program – we can help optimize both ration costs and performance.



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