Save time *and* money
with a shorter step-up period

Shorten the step-up

Decrease roughage

Reduce manure output

LactiproNXT®

LactiproFLX®

MSBiotec®

SHORTEN THE STEP-UP

Shorten the step-up period

To maximize efficiency, every cattle feeder's goal is to transition cattle to a finishing ration as soon as possible without causing acidosis or bloat. The traditional step-up period takes 21 days or more because the normal population of lactic acid-utilizing bacteria in the rumen takes time to grow to handle high-grain diets.

Megasphaera elsdenii (or Mega e®) is the most efficient lactic acid-utilizing bacteria in the rumen. It seeks out lactic acid as a preferred food source over all others. But *Mega e* takes time to build an adequate population.

What if you could increase the *Mega e* population faster?

- Lactipro delivers an **immediate, viable population** of *Mega e* directly to the rumen – no waiting for the rumen to adapt.
- This patented strain of *Mega e* was specifically selected because it **grows rapidly in the rumen**, is one of the hardiest and resilient strains at a wide pH range, and it **produces beneficial butyric acid**.
- Lactipro leads rumen fermentation in the right direction and allows cattle feeders to **shorten the step-up by 50%** or more.

DECREASE ROUGHAGE

Decrease roughage – *and labor*

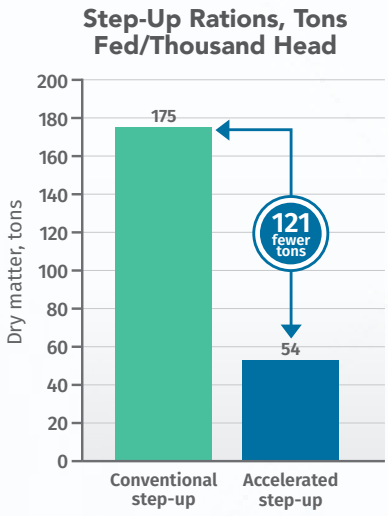
Real-world commercial feedyard studies

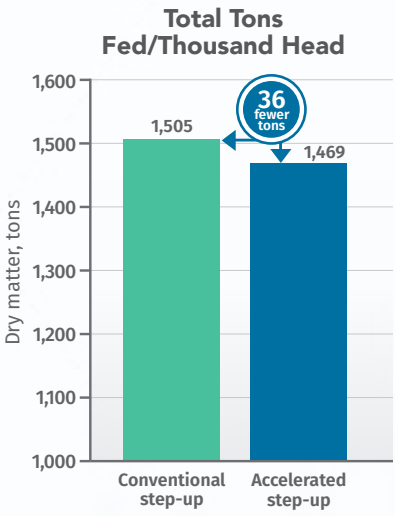
Studies conducted in Kansas and Colorado, involving 9,107 cattle, demonstrated that shortening the step-up period resulted in fewer tons of step-up diets and total feed consumed.

A shorter step-up period also increases the operational efficiency of the yard – less time processing roughage, fewer loads of bulky starter diets and the opportunity to reduce the number of rations manufactured.

Key findings (per thousand head):

- 121 fewer tons of step-up rations fed
- 36 fewer tons of total feed — including 33 tons of roughage — consumed





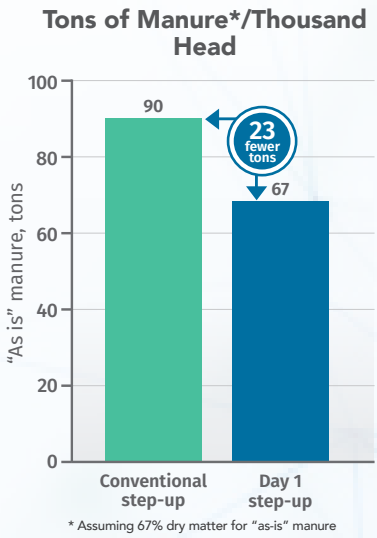
These studies also demonstrated improved feed efficiency, due to reduction in feed intake and improvement in gain, resulting in a **5:1 return** with today's high feed costs.

REDUCE MANURE OUTPUT

Reduce manure output

A study at Kansas State University evaluated 90 steers to assess manure output for the first 24 days on feed. Control cattle were stepped up to the finishing diet over 19 days and were compared to cattle receiving Lactipro and transitioned to a finishing diet on day one. Steers were housed in partially covered concrete surfaced pens. Total fecal output and feed intake were measured daily.

This study showed a **reduction of 23 tons** of "as-is" manure per thousand head – significantly less manure to scrape and haul.



MSBiotec®

One proven product, two formulations

LactiproNXT®

LactiproNXT is an easy-to-use 20 mL drench that comes in 10- or 50-head pouches. Each pouch contains freeze-dried bacteria separated from the rehydrant by a seal and features a clear bottom gusset that allows users to see inside the pouch. Once activated, it must be used within 18 hours.

LactiproFLX®

LactiproFLX Feedlot is a small convenient capsule that is packaged in a 25-capsule resealable pouch. LactiproFLX is ideal for use in individual animals or when activating a pouch of LactiproNXT is not ideal.

LactiproNXT and LactiproFLX Feedlot provide the same number of bacteria per head and are equally effective. Both products require refrigerated storage.

Bunk management is critical to accelerated step-up program success. Consult your nutritionist before making a change to your step-up program. Contact your MS Biotec sales professional or technical service for assistance at techservice@msbiotec.com.

To order Lactipro, contact MS Biotec customer service at 877-907-5315 or orders@msbiotec.com.

MSB3-9/2021

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