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**New research!**

# Milk Bar Research Trial 2014

## New results show superior digestion of milk by calves on Milk Bar Teats!

For 20 years, Milk Bar customers have told us that calves are healthier when they use Milk Bar Teats. We wanted to know exactly why Milk Bar calves have less nutritional scours and much less cross suckling, so we commissioned a research facility to conduct in-depth investigation on the digestive system of young calves. The brief was to feed six groups of calves from the same farm, the same rations and in the same facility. Three groups were to be fed with Milk Bar Teats, while the other three groups were to be fed on a faster feeding teat with an internal valve.

### New Digestibility Results!

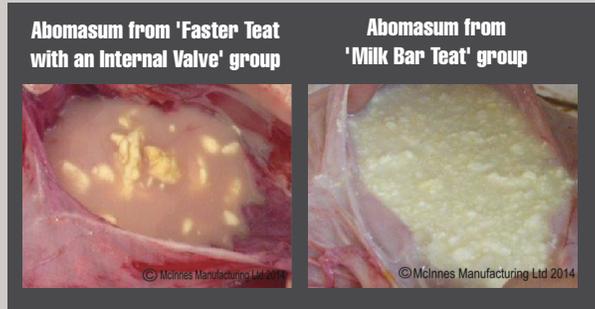
During the course of the trial, some calves from both groups were humanely euthanized to see what the effects of different feeding speeds had in the digestive tract. Results from digestibility analysis show huge differences in the absorption of lactose in 14 day old calves. Tests were conducted two hours after feeding and showed there was **254%** more lactose remaining in abomasum of calves fed with a faster teat with an internal valve than there was in calves fed with the slower feeding Milk Bar Teats.

**150%** more lactose had passed through the digestive system and as far as the rectum in calves fed with a faster teat with an internal valve than in calves fed with Milk Bar Teats. This indicates there is significantly more lactose present in the intestines of calves fed with a faster teat with an internal valve. Lactose is a sugar, and an ideal medium for the growth of bacteria. High levels of lactose in the intestines could be part of the reason why calves fed with a faster teat are more prone to scours.

### Curding

The difference in the curd structure in the abomasum was very noticeable two hours after feeding. Calves fed on a faster teat with an internal valve had very little curding with hard lumps of coagulated milk in a watery fluid. Calves fed on Milk Bar Teats had even porridge like curding. There were significant differences in the Average Daily Weight Gains.

42 Day Average Daily Gain	Faster Teat with valve 1.47 lbs. per day
	<b>Milk Bar Teat 1.63 lbs per day</b>



### Cross Suckling and the Effects on the Developing Udder

Calves in the "faster teat with an internal valve" groups cross suckled vigorously after feeding and tended to have red swollen teats. Of great concern was the teat canal appears to be open, and the keratin plug appears to have been sucked out. **O.W. Schalm wrote "Calves suckling on each other can affect the development of the juvenile udder. This in conjunction with the transmission of mastitis pathogens is prone to lead to heifer mastitis"**. It is too early in the trials to answer the question, "Why do calves fed on faster teats with an internal valve cross suck more than calves fed on Milk Bar Teats", but the photographs above make it obvious that they do. The impact of these damaged udders coming into your herd is worth thinking about.



### Why a Milk Bar Teat is different to a teat with an internal valve

Only Milk Bar Teats have an internal web that controls the flow rate, stopping calves gulping and encouraging the correct suckling action and saliva production required for great calf health, better curding, higher weight gain and less cross suckling.



**265-0002 Milk Bar Nipple (Black)**  
**265-0001 Colostrum Nipple (Yellow)**



## Milk Bar Follow the Teat System for Healthy Calves!

● **Training Phase. Day 1-3**



● **Development. Day 4-10**



● **Growth Phase. Day 10 to weaning**



**Milk Bar Teat Tool**  
To easily move the teat to the group feeder



● **Training Phase Feeders** These feeders are used for the first 1-3 days and are fitted with a Milk Bar Colostrum Teat for easy training.

**Milk Bar 1 Ezi Lock Colostrum**

Holds 7 quarts.  
Hangs outside crate or pen.  
Ezi Lock Hooks are 100% bunt proof and lock onto rails or pipes.



**2 QT Nursing Bottle With Snap-on Nipple**

**2 QT Nursing Bottle With Snap-on Nipple for colostrum- yellow**



**Milk Bar Colostrum Teat**

Made from a soft natural rubber. Makes training calves a breeze. Correct sucking action for great calf health.



● **Development Phase Feeders** These feeders are used from day 4-10 (or longer if you do not have enough calves to make a group). They are fitted with a Milk Bar Teat which the calf will follow into the Growth Phase. Each crate/hutch has its own feeder (i.e. 6 x crates = 6 x feeders)

**Milk Bar 1**

Holds 3 quarts.  
Hangs inside crate or pen. Moulded hooks fits 1 inch. Convenient hand grip.



**Milk Bar Teat**

Simulates the slow natural suckling action required for correct digestion. Calves fed with Milk Bar Teats are more relaxed and cross suckling after feeding is greatly reduced or eliminated.



● **Growth Phase Feeders** These feeders are used from day 10 to weaning. Choose a feeder that suits the size of your operation and how many calves you would like in a group. You can choose from an open trough style or compartment style. You will need one feeder for each group of calves.

**Milk Bar Portable Feeders:** Feeders are fitted with Ezi Lock Hooks which are 100% bunt proof and lock onto rails or 3" pipes. Feeders are easy to clean and handle and are very durable. Milk Bar Feeders interstack with teats fitted for even easier handling.

**Milk Bar 5**  
15.8 quarts

Sturdy carry handle. Moulded hooks fit 1" - 1 3/4" rails or bars. Marked increments.



**Milk Bar 6**  
9 gallons



**Milk Bar 10**  
15 gallons



**Milk Bar 12**  
23 gallons



**Milk Bar Portable Compartment Feeders:** Each compartment holds 2.5 quarts and has the same user friendly features.

**Milk Bar 2**  
Compartment



**Milk Bar 3**  
Compartment



**Milk Bar 5**  
Compartment



**Milk Bar 10**  
Compartment



**Did you know?**

The slower a calf feeds, the less time you spend treating sick calves. Calves that feed at the slow speed as nature intended are able to digest milk and are much healthier than calves that are fed quickly. Slow teats save you time!