



# MILK ADDITIVE

## GET YOUR CALVES OFF TO A GOOD START - RIGHT FROM THE START

NuStart is a unique natural gut conditioning package containing four key components:

- 1 Functional fibre** which when fermented to butyrate stimulates development of the abomasum.
- 2 A blend of **Etheric oils**** derived from herbs & spices that stimulate appetite and health, and support the calf's developing immune system. Selected from:

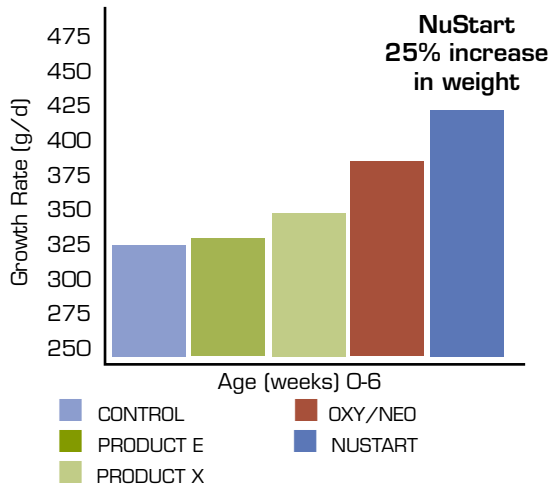
Nutmeg	Digestion stimulant, antidiarrhoeic	Pepper	Digestion stimulant
Cinnamon	Appetite & digestion stimulant, antiseptic	Horseradish	Appetite stimulant
Clove	Appetite & digestion stimulant, antiseptic	Mustard	Digestion stimulant
Cardamon	Appetite & digestion stimulant	Ginger	Gastric stimulant
Coriander	Digestion stimulant	Garlic	Digestion stimulant, antiseptic
Cumin	Digestion stimulant, calmative	Rosemary	Digestion stimulant, antiseptic, antioxidant
Anise	Digestion stimulant	Thyme	Digestion stimulant, antiseptic, antioxidant
Celery	Appetite & digestion stimulant	Sage	Digestion stimulant, antiseptic, calmative
Parsley	Appetite & digestion stimulant, antiseptic	Bay Laurel	Appetite & digestive stimulant, antiseptic
Fenugreek	Appetite stimulant	Peppermint	Appetite & digestive stimulant, antiseptic

- 3 Profeed® prebiotic** which encourages growth of beneficial bacteria in the hind gut to help reduce scours, giving a boost to gut health which improves calf performance.
- 4 An optimal profile of **vitamins, minerals** and **trace elements**.**

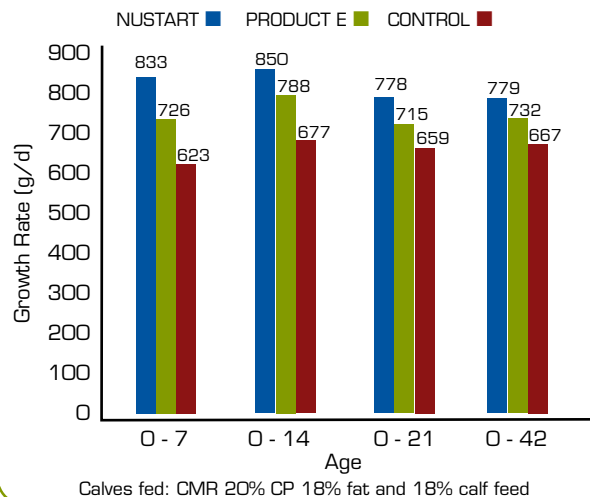
**Nustart in milk has outperformed other additives including antibiotics:**

**17% increase in LWG in 0-6 weeks from calves on NuStart**

**Effect of NuStart on Performance of Milk fed Calves**



**Effect of NuStart on Performance of Milk fed Calves**



## DEVELOPED BY PROVIMI

NuStart was developed by Provimi, a world leader in animal nutrition. When added to colostrum, whole milk and milk replacer it has been shown in repeated trials to:

- ✓ Increase rumen development
- ✓ Reduce scouring and other diseases
- ✓ Boost immune response
- ✓ Increase whole milk/milk replacer intake
- ✓ Greatly increase dry feed intake
- ✓ Promote more growth
- ✓ Provide a link between whole milk/milk replacer and dry feed.



Average weight of rumen of 6 week old calves fed whole milk: 1.42kg



Average weight of rumen of 6 week old calves fed standard milk powder: 1.57kg



Average weight of rumen of 6 week old calves fed milk powder with NuStart: 1.89kg

## WHY USE NUSTART?

Because cow's milk is typically not ideally suited to the needs of the calf:

	Colostrum	Whole Milk	Calf Requirements	Comments
Iron (mg/kg)	10	3	75-100	Deficiency causes anaemia
Copper (mg/kg)	2.5	1	10	Essential for growth
Selenium (mg/kg)	0.1	0.02	0.3	Vital for muscle development
Vitamin A (iu/kg)	12,400	11,500	11,000	Calves born with low reserves
Vitamin D3 (iu/kg)	500	307	600	Essential for growing animals
Vitamin E (iu/kg)	15	8	50	Important for muscle function

### Weaned early and looking good

Nelson farmer Ted Ford is very happy with his calves this season.

Ted and his wife Clare rear around 100 calves a season on 74ha near Richmond in an area known for its low selenium. This year their calves weaned a week early.

"We only used NuStart for the first time last year, but we found we weaned them a bit quicker than what we normally do."

He's also experienced fewer issues with under-performing calves.

When Ted had them vaccinated and drenched, the local vet was impressed with their condition. "He thought they were looking pretty good."

Ted found out about NuStart while attending the NZ Jersey Breeders Conference in Ashburton two years ago. A tour of the Winslow complex impressed and Ted liked the theory behind the product.

"Over the years we've had various premixes but this one sounded like it was worth a try."

So far the Fords have used NuStart to improve the condition of bull calves reared for others and to take other calves through to weaning.

"We are very happy with the results we have got and we'll do it again next season."

## WHEN TO USE

Calf feed should contain a full complement of essential minerals and trace elements - but intakes take time to build so young calves consuming mostly milk are vulnerable. To give new calves the best possible start NuStart Milk Additive can simply be added to colostrum and whole milk for the first 21 days of life when calves are most at risk - longer if even better performance is desired. With a range of essential trace elements and vitamins plus the NuStart essential oils, functional fibre and pre-biotic formula, NuStart Milk Additive can be added to milk to fortify the level of essential, health enhancing ingredients.

**Supplied in powder form, NuStart is easily mixed with milk. Simply mix just 7.5 grams per calf into whole milk daily.**

(Supplied in 10kg bags giving 1333 daily doses - enough for approximately 65 calves for 21 days.)

**winslow**  
Feeds