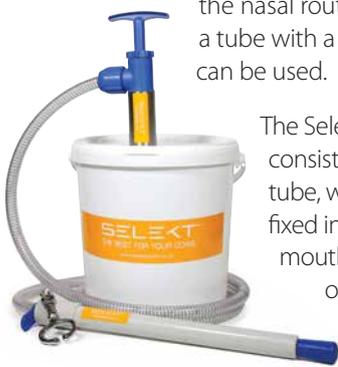


# Agilis Updates

## Selekt Fluid Therapy Pumps

The use of hypertonic saline followed by oral rehydration is well documented as a means to expand circulatory volume in cattle. The effect is rapid and may last for up to 3 hours.

Delivering water via a nasal gastric tube is effective but painstakingly slow when volumes may be up to 20 litres or more. Using the oral route for fluid therapy allows the large volumes required to be delivered much more quickly than using the nasal route, because a tube with a larger bore can be used.



The Selekt system, consists of a rigid tube, which can be fixed in the cow's mouth by means of a nose tong, a flexible

tube which passes through it and can be fixed in position by means of a lock, and a stirrup pump. It requires only one person to operate it and allows the delivery of 20 litres of fluid in less than two minutes. Using the Selekt pump system removes the barrier to tubing cows allowing more frequent use of fluid therapy in cattle or sheep using the Selekt mini drencher which conveniently fits the Selekt pump.

Selekt pumps are supported by the range of isotonic Selekt sachets to support rehydration. The select range includes Antacid, Fresh Cow, Off Feed, Restore and Glycerol plus. The SELEKT range fills a gap in treatment options for oral rehydration of cows. It will enable the increased use

of fluid therapy for adult cattle. Critically important nutrients can be supplied to the cow in larger quantities than can be supplied in bottle drenches, pastes and boluses. The products are made from pharmaceutical grade ingredients, come in tidy foil sachets, and have organic registration.



If you have any questions about our product range please phone your Agilis rep today.

**0800 agilis**

## Pasteurisers

Coming from Dairy Tech Inc out of Colorado in the USA, are batch processing pasteurisers that are essentially precision low temperature heat treatment units.

The benefits of heat treating your colostrum mean diseases are less likely to be transmitted to young calves as pathogens are killed in the process and the transfer of all-important immunoglobulins to the new-born calf is greatly improved. This leads to healthier calves through the rearing process flowing on to healthier heifers entering the herd. The heat-treating process is carefully controlled to ensure the temperature of colostrum reaches but does not exceed 60 degrees centigrade. The 60 degrees is critical as any higher and the all-important immunoglobulins will be destroyed and any lower and pathogens will persevere. *REMEMBER: 60 degrees for 60 minutes!*



The common theme from previous installations is that calves have never been healthier and those that have gone with this technology would not go back. This is supported scientifically in a study published in the Journal of Dairy Science whereby calves fed pasteurised colostrum experienced higher levels of passive transfer which flowed on to healthier calves, not only in the rearing process but enabling more milk to be produced in the first two lactations. This is the way of the future.

# STARTVAC®

During the Covid-19 lockdown concern has been voiced over reduced ability to minimise antibiotic usage during this year's milk quality reviews. In many cases whole herd therapy has been continued with a lack of information to be able to carry out selective herd treatment. It is important to remember there is another tool in the arsenal for controlling mastitis and high cell counts in dairy herds.

Startvac is a **multivalent mastitis vaccine** with protection for ***E. coli*** and ***S. aureus*** infections but additionally offers protection against **gram negative pathogens** as well as **coagulase-negative staphylococci** (CNS).

Startvac has been shown to protect and minimise the severity of clinical cases along with a reduction of sub-clinical mastitis caused by *S. aureus*, coliforms, and CNS.

Startvac has been in NZ for 4 years now and is steadily gaining a foothold in the New Zealand dairy industry. Whether it be used in a dairy barn situation with problematic *E. coli* and *S. aureus* or out in the field on a pasture-based system where *S. aureus* continues to niggle away at profitability, Startvac has been proven to be effective mastitis control measure.

A common theme with Startvac research is that there is an overall reduction in clinical cases along with improved cure rates. This conveniently relates to an overall

reduction in antibiotic usage which is a goal the veterinary industry is attempting to embrace. Prevention is better than cure and in the long term is clearly more sustainable.

Startvac works in different ways depending on what pathogen is aimed to be controlled. For *S. aureus* and CNS, Startvac interferes with the formation of biofilm (slime) that surrounds the bacteria. Biofilm on its own enhances bacterial growth while largely protecting them from both antibiotics and the body's own defence mechanisms such as neutrophils and macrophages. By preventing the development of biofilm, and coating the bacteria with antibody complement, it favours the contact with neutrophils and macrophages, enabling the destruction of the bacteria.

For gram negative bacteria such as *E. coli* and coliforms, Startvac inhibits the development of the cell, therefore

preventing bacterial growth. It acts against the core antigen at a specific time in the growth of the cell which enhances the recognition of the natural defences for the destruction of the bacteria. Proliferation of *E. coli* and subsequent toxin release is severely reduced, hence much less severity in clinical disease.

All in all, Startvac is a major tool to assist your decision making to control mastitis.



## Covid-19 Update

### PREDICTION:

There will be a minor baby boom in 9 months, and then one day in 2033, we shall witness the rise of the QUARANTEENS!



## Farewells

We are sad to see our territory manager extraordinaire Melinda Little finish up with us, I am sure the clinics that worked with Melinda will miss her as do we very much and wish her all the best with her new endeavours.

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