

Summit Pack



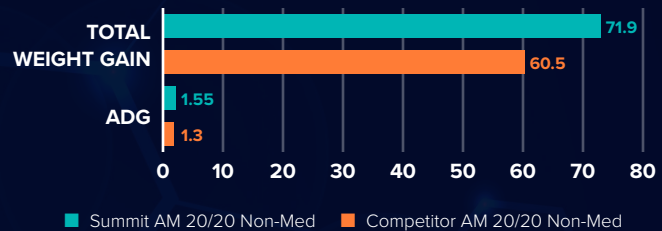
Summit Pack is designed to stimulate appetite and digestion, increase rate of gain and improve feed conversion.

The compounds used are a safe and natural way to promote growth and health in baby calves, as is evident in all three trials. They show an increase in Weight Gain using an All Milk 20/20 milk replacer with Summit Pack, over Non-medicated and Medicated All Milk 20/20 milk replacers.

Summit Pack is exclusive to Esmilco, Inc. and can be added to milk replacers or directly to fluid milk.

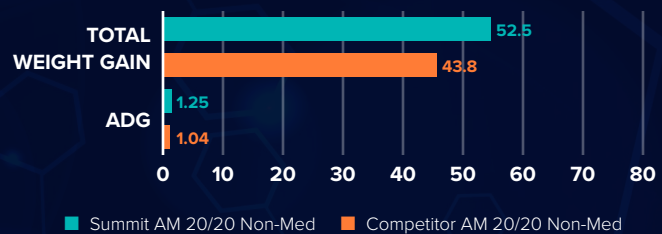
Performance Trials Using Summit Pack

TRIAL 1 • 46.5 DAYS ON TRIAL



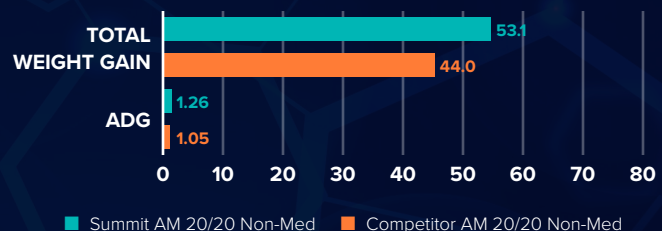
WEIGHT GAIN IMPROVEMENT +18.8%

TRIAL 2 • 42 DAYS ON TRIAL



WEIGHT GAIN IMPROVEMENT +19.9%

TRIAL 3 • 42 DAYS ON TRIAL



WEIGHT GAIN IMPROVEMENT +20.7%

Summit Pack

Summit Pack contains all natural active compounds which have unique properties capable of destroying bacteria, preventing pathogenic bacteria colonization and stimulating the digestive and immune system.

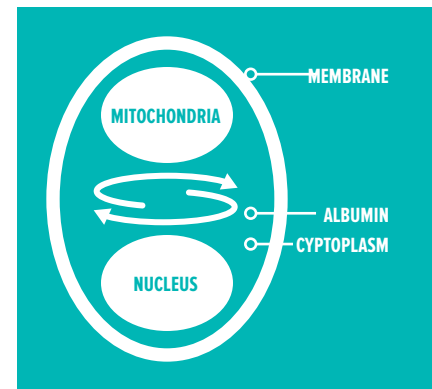
Mode of Action

The main active compounds are derived from herbal oils, which contain lipid soluble components. All bacteria, fungi, and protozoa contain fats or lipids located between the outside and inside membranes of their cell walls. When the active compounds come in contact with the membrane of a microorganism, it dissolves the lipids in the membrane and destroys the cell wall, resulting in the death of the organism. In addition to destroying the cell membrane, the active compounds also inhibit the synthesis of albumins. Albumins are responsible for the transportation of oxygen within the cell. By interrupting the synthesis of albumins, the active compounds “suffocate” the microorganism. Due to the specific mode of action on cell membranes, pathogens cannot build resistance against these

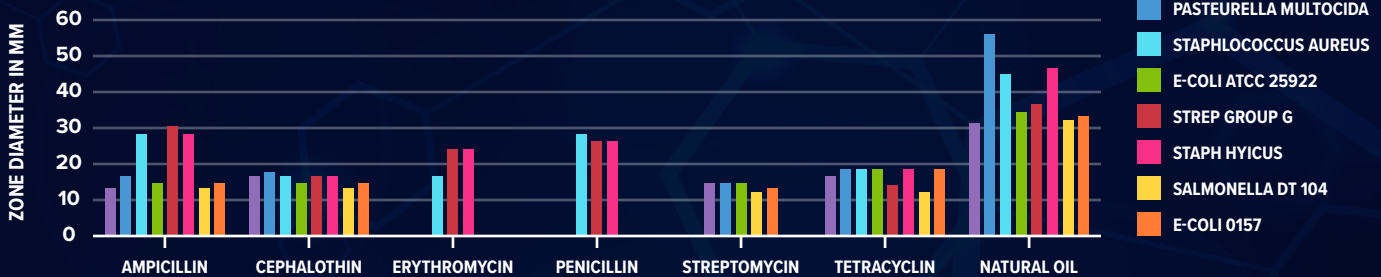
compounds. The active compounds are converted into inactive metabolites. One converted into metabolites, the compounds are excreted from the animal, leaving no risk of residue.

Not only will these active compounds decrease bacteria such as E coli and Salmonella, they will also aid in stimulating appetite and growth. It does this by acting on specific receptor sites found on the gastrointestinal tract. This action causes the release of certain digestive enzymes. This is what leads to the increased appetite along with enhanced weight gain and makes the transition to dry starter feed easier and faster.

To compliment this system approach to natural growth and health, mannan oligosaccharides (MOS) are added to improve absorption of nutrients, decrease colonization of pathogenic bacteria, and enhance the immune system to resist infections.



Antibacterial Efficacy



Cornell University Test, June 2000. Zone diameters were determined by measuring the area of no growth using 0.1 ml of the oil in a well 18mm in diameter and 5mm on an agar plate.

Product Benefits

Summit Pack MR is an add pack that is designed to stimulate appetite and digestion, increase rate of gain and improve feed conversion. The natural compounds used are a safe and natural way to promote growth and health in baby calves. This approach to feeding leads to less dependency on antibiotics. Antibiotic treatments made on an as needed bases will be more effective than those fed continuously.

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**Esmilco, Inc.**