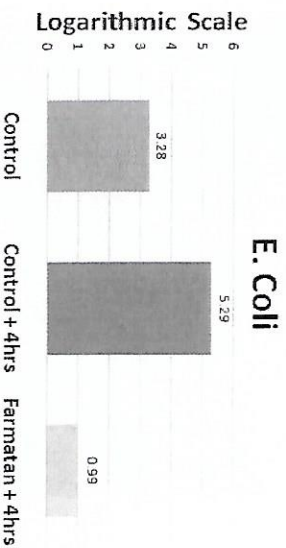


Farmatan — Impact on animal Health

- ⇒ Protects the gut — improve lower gut wall integrity by improving tight junctions between cell walls preventing leaky gut and toxin absorption from pathogens such as Coccidiosis, Cryptosporidium, Clostridia, E. coli while boosting good bacteria.*
- ⇒ Reduces pathogen load — naturally occurring Gallic and Ellagic acid in the tannins reduce bacteria growth at higher pH in lower GI tract.*
- ⇒ Reduces duration and severity of scours.**



Source: Ghent University, Belgium

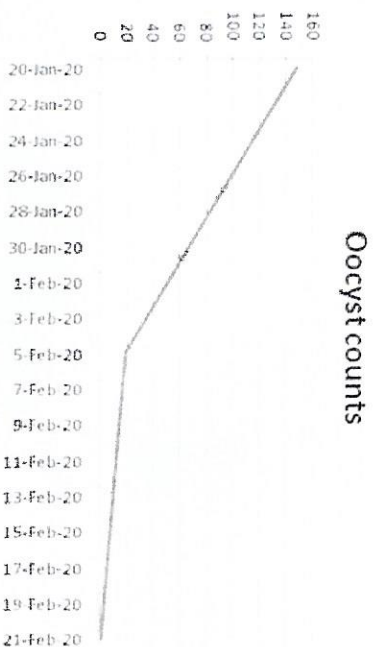
*Buzzi et al, Mini-Reviews in Medicinal Chemistry, 2008, Antimicrobial and Antiviral Activity of Hydrolysable Tannins

** Bonelli et al, Oral administration of chestnut tannins to reduce the duration of neonatal calf diarrhea

Farmatan Impact:

Savanna Goats, Estelline, South Dakota

- ⇒ Consistent cocci problem, confirmed cocci scours with vet Dr. Mark Appelhof.
- ⇒ 152 goat herd treated over 30 days. Initial feeding rate 7g/head per day for 30 days.
- ⇒ Cocci count dropped 85% in 2 weeks and 98% reduction after 30 days
- ⇒ Kids showed greater thrive and better weight by weaning. 4g now given in daily feed



Roth Sheep Ranch, Montana

- ⇒ Multiple years with poor lamb performance
- ⇒ Fed 5g/hd/day in a ewe and lamb ration
- ⇒ Dramatic reduction in all scours in 2022
- ⇒ <1% treated for scours
- ⇒ Lambs have outperformed all previous years
- ⇒ 40 day lamb weights averaging 43lbs

Recommended Feeding

- ⇒ New Kids
- ⇒ 6 cc's Thrive Paste* after Colostrum

*Paste is NOT certified organic.

- ⇒ Milk Replacer and Dry feed
- ⇒ Farmatan 2-3g/head/day
- ⇒ Breeding Does/Ewes
- ⇒ Farmatan 5g/head/day
- ⇒ Dairy Does/Ewes
- ⇒ Farmatan 7g/head/day

Crypts affected by Cryptosporidium

Without Tannin:



With Tannin:

