



FERTI-TECH
Australia Pty Ltd

Ferti-Tech Australia Animal Health Tech Sheet.



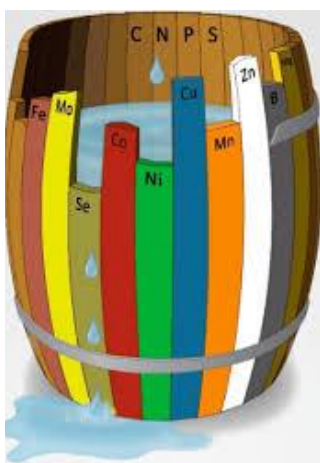
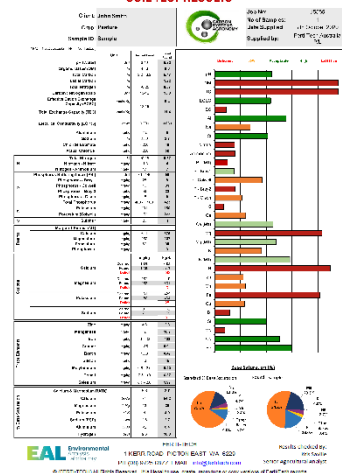
How does Ferti-Tech assist with livestock production:

We are strong believers that the key to a successful livestock enterprise needs to be a balance of short term solutions and long term improvements. That is why we like to start our programs in the soil and follow our programs right through to the fodder the animal eats, helping to improve feed quality every step of the way!

A big aspect of the CSA approach is understanding the nutrition inputs required in each situation and when the nutrients should be applied to give the maximum benefit. We have developed many products now that are designed specifically for pasture production helping provide growers access to nutritionally complexed fertilisers that help overcome a variety of issues for plant and livestock health. Some examples include:

- Custom granule blends to help soil/ plant health
 - Early season soil drenches
 - Midseason liquid fertiliser top ups
 - Late season high analysis liquids designed to be applied just before fodder harvest to ensure maximum nutrition and energy is harvested
 - Stock Licks to help bridge nutrition gaps in peak demand periods.
- This wide range of products helps maintain flexibility for growers without compromising quality!

SOIL TEST RESULTS



How can Ferti-Tech help you measure improvement in soils and pastures for improved livestock performance:

The Ferti-Tech team is a group of passionate individuals who understand the benefits of improving on farm soil/ plant health for long term profitability. We use a wide range of science backed testing and infield monitoring services to provide our clients with solid advice that considers all aspects of your enterprise. Some examples of our testing services include:

- Soil tests
- Infield SAP Meter testing
- SAP testing by laboratory
- Leaf Tissue testing
- Fodder tests



Benefits of good livestock nutrition:

- Improve weight gains
- Improve feed conversion efficiency
- Improve livestock fertility
- Improve livestock mortality
- Improve produce quality
- Improve feed quality
- Improve profitability

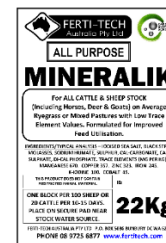
Ferti-Tech Australia – Carbon Systems Agronomy

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FERTI-TECH STOCK LIKS:

Ferti-Tech Australia (FTA) Stock Liks are solid 20-22Kg Blocks formulated with plenty of essential Nutrient Support – including Soluble Reactive Carbon for Improved Rumen Buffering and Feed Utilisation. All Blocks are well-blended with Strong Trace Element additions and compressed at over 150 tonnes to be rock hard, set dry and very long-lasting. No waste or water used in the complete FTA Stock Lik range.



Deficient Nutrient	Scenarios where Deficiencies are likely to occur	Common Signs	Impact on livestock Production	How may FTA Stock licks prevent/ assist
Copper	- Paddocks that are alkaline or have an excessive liming history. - High Molybdenum levels in soil. - Vigorous growth of green pastures, especially pastures that are low in legumes.	- Loss of pigment in hair of cattle especially around eyes e.g. grey hairs appearing. - Sway back in lambs. - Scouring - Lameness	- Loss of coordination - Death in severe cases - Steely Wool - Sore Feet	All FTA Stock Licks contain copper.
Selenium	- High rainfall pastures. - Excessive Sulphur applications e.g. gypsum/superphosphate. - Sandy/ acidic soils. - Concentrated rations low in selenium e.g. grain rations for dairy cattle.	- Poor growth - Larger proportion of dry ewes - Decreased wool production - Retained Placenta - Reduced appetite	- Infertility of ewes, through death of embryo. - White Muscle Disease - Immune Function	Certain FTA Stock Licks contain Selenium.
Vitamin E	- During sustained periods without green feed such as grain and hay over summer. - Likely to affect weaner lambs that are supplementary fed over summer.	- Reluctance to move - Lameness - Stiff gait	- White Muscle Disease - Sudden death - Immune Function	Ingredient in FTA 'Vitalik'
Cobalt	- Sandy/ sand based soil types. - Low legume content pastures. - High worm burden in livestock.	- Reduced appetite - Anemia - Scours - Some cattle may eat bark/leaves. - Weepy eyes	- Reduced vitamin B12. - Reduced growth - Reduced milk production	Available in all FTA Stock Licks.
Phosphorus	- Poor Phosphorus fertiliser history. - Severely Phosphorus deficient soil types.	- Lethargic livestock - Chewing bones - Legs break easily	- Botulism - Reduced fertility - Reduced weight gains.	Available in all FTA Stock Licks.
Magnesium	- Lactating cattle. - Magnesium deficient soils. - Lack of legumes in pastures.	- Unexpected death of cattle - Muscle twitching - Unexplained change of animal character e.g. hard to handle	- Death - Grass tetany - Disruption to heard	FTA 'Hi-Magnesium Lik'
Calcium	- Low Calcium soils where there has been a poor liming history - Low Legume content pastures	- Dry muzzle - Reduced appetite - Ewes may cast, especially when heavily pregnant/lactating - Ataxia/tremors	- Weakened Bones - Hypocalcemia - Increased need for Vitamin D	All FTA Stock Licks contain calcium in various forms (should not be used to treat Hypocalcemia)
Zinc	- Alkaline Soils - Zinc Deficient Soils	- Cracking of Hooves, limping - Skin lesions, cracked skin, hair loss	- Facial Eczema - Sore Feet	Available in all FTA Stock Licks
Reactive Carbon	Ryegrass & Fescue pastures – presence of endophyte infected pastures	- Staggering / Incoordination - Anxiety - Stiff movements	- Toxicity - May cause death	Available in all FTA Stock Licks

Most Common livestock nutritional issues in Australia:

*Selecting the correct Stock Lik for your individual situation is important to ensure you are getting the best value for money, contact Ferti-Tech today for information about how our animal supplements can help you meet the nutritional needs of your livestock.