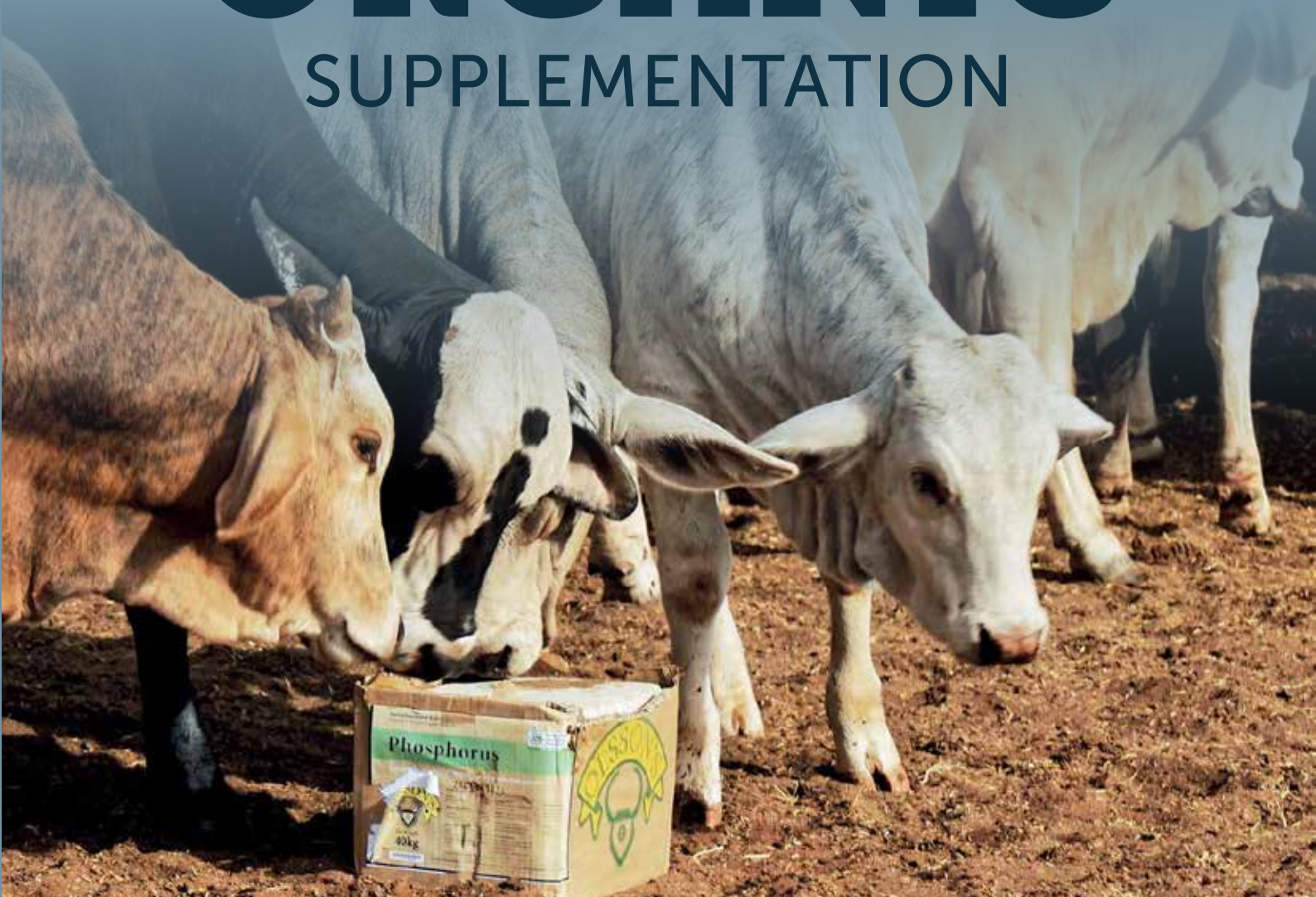




FREE CHOICE

ORGANIC

SUPPLEMENTATION



ORGANIC SYSTEM

FREE CHOICE

ORGANIC SYSTEM



WHY USE OLSSON'S ORGANIC FREE CHOICE SUPPLEMENTATION SYSTEM?

Olsson's Organic Free Choice System identifies nutritional deficiency in livestock and satisfies the deficiency efficiently and effectively. We place major minerals in individual supplement blocks, allowing the animals to choose which minerals they require as they require them.

Because Olsson's Organic Free Choice System splits the macro minerals, animals can satisfy their own nutritional requirements. This means that livestock will only consume the nutrients they need, avoiding overconsumption (and the wasted money that goes along with it). Because Olsson's Organic System meets the phosphorus, sulphur & trace element needs of the animal, available protein will be maximised due to an efficient rumen. Organic Protein + Yeast blocks

are available for situations where pasture protein is insufficient.

The system indicates which nutrients the animals are deficient in. If the animals are consuming large amounts of the Organic Trace Element block for example, we know there is a trace element limiting factor. Determining and meeting the deficiency is the aim. Other tests available to determine the most limiting factor include dung testing, pasture testing, hair sampling and water testing. Many of Olsson's clients use these tests to fine tune their production system.

Our Free Choice Organic System is certified organic- Australian Organic Certification No. 12162 & USDA-NOP compliant.

HOW DOES THE FREE CHOICE SYSTEM COMPARE TO OTHER OPTIONS ON THE MARKET?

When over-consumption occurs the animal consumes large amounts of unneeded nutrients, sometimes more than 600-800 grams of loose lick per head per day, in order to access the required nutrients. Over-consumption is often corrected by souring the lick. However, with this approach livestock may stop consuming before the deficiency is corrected. Even if they are consuming the nutrients they need, often livestock will consume the nutrients faster than their bodies can absorb them. They then excrete the unabsorbed nutrients, leading to wasted supplement, and wasted money.

Our blocks regulate the intake of nutrients- meaning the animals can only consume nutrients as fast as they can absorb them. This leads to healthier cattle, and a healthier wallet.

People may assume that purchasing three or four blocks instead of one complete supplement is more costly. In reality, cattle consume less supplement because they are able to satisfy their deficiency quickly and with a minimal amount of intake. If they do not need it, they will not eat it. Olsson's blocks are weather resistant and will not wash away in heavy rainfall.

Olsson's Organic blocks have nutrients that are balanced with sodium where required to meet the animal's initial craving for salt.



Weather resistant supplementation



Increases Productivity

Blocks provide balanced nutrition for better production



Weather Resistant

Supplementation to withstand the sun and rain



Certified Organic

Australian Organic Certification No. 12162 & USDA-NOP compliant



Efficient Supplementation

Animals only consume nutrients they require, cutting down waste



Draws Animals In

Helps domesticate herd

FREE CHOICE

ORGANIC PRODUCTS

	Organic PROTEIN + YEAST	Organic PHOSPHORUS	Organic SULPHUR	Organic TRACE ELEMENTS	Organic BENTOBITE	Organic DIATOMITE
	Page 5	Page 5	Page 6	Page 6	Page 7	Page 7
Dry Season	●	●	●	●		
Wet Season		●	●		●	
Weaning	●					
Finishing	●		●			
Early Wet		●			●	
Toxic Plants			●		●	
Internal Parasites						●
	Maximise protein conversion & utilise dry feed	Improves fertility, lactation & growth rates in calves	Sulphur improves rumen efficiency	Corrects deficiencies of essential trace elements	Helps absorb toxins, boosting production, reducing scouring	Assists in reducing worm burden



ORGANIC PROTEIN + YEAST



A premium protein supplement with yeast (Levucell Titan). For all livestock.

Olsson's Organic Protein + Yeast is high in natural protein and provides energy to livestock to support growth & performance. Also contains yeast (Levucell Titan) for optimising rumen pH and increasing fibre digestibility. Suitable for all livestock.

It is suitable for dry pastures, lactating animals, and any application where additional protein is required in the livestock. Ideal for weaners & finishers.

Australian Organic Certification No.12162, USDA-NOP compliant.

Available in 36 & 90kg blocks.

DIRECTIONS FOR USE	TYPICAL ANALYSIS			
Sheep/Goats: 5-10g per head per day Cattle: 50-100g per head per day	Protein Meal	20%	Calcium (Ca)	0.086%
	Total Protein	8%	Phosphorus (P)	0.4%
	Molasses	5%	Magnesium (Mg)	0.045%
	Sea Salt (NaCl)	40%	Yeast (Levucell Titan)	0.5%

ORGANIC PHOSPHORUS



Premium 8% phosphorus supplement for production animals.

Olsson's Organic Phosphorus is a multi-nutrient supplement block formulated to provide phosphorus and essential minerals as part of livestock feeding programs. It is suitable for a wide range of livestock and feeding conditions where phosphorus supplementation is required.

Certified organic by Australian Organic (No. 12162) and compliant with USDA-NOP standards.

Available in 20 & 40kg blocks.

DIRECTIONS FOR USE	TYPICAL ANALYSIS			
Sheep/Goats: 5-10g per head per day Cattle: 50-100g per head per day	Molasses	5%	Calcium (Ca)	8%
	Sea Salt (NaCl)	47%	Phosphorus (P)	8%

ORGANIC HIGH SULPHUR



16% sulphur block for supporting general metabolism & protein synthesis.

Olsson's Organic High Sulphur is a supplement block formulated with sulphur and minerals for livestock on dry and fibrous feeds. It supports general metabolism and protein synthesis in livestock.

Certified organic by Australian Organic (No. 12162) and compliant with USDA-NOP standards.

Available in 20 & 40kg blocks.

DIRECTIONS FOR USE	TYPICAL ANALYSIS			
Sheep/Goats: 5-10g per head per day Cattle: 50-100g per head per day	Molasses	2%	Sulphur (S)	16%
	Sea Salt (NaCl)	84%	Zinc (Zn)	18.62mg/kg
	Calcium (Ca)	0.7%		

ORGANIC TRACE ELEMENT



A multi-mineral trace element supplement

Olsson's Organic Trace Element is a macro mineral supplement designed for a broad range of mineral deficiencies. Balancing these essential elements supports the efficient breakdown of feed consumed by the animal. Deficiencies in copper, cobalt, iodine, magnesium & selenium can reduce the animal's growth and reproduction rates, and result in less efficient feed conversion and depressed immunity. Balancing these elements will improve general production of the herd.

Certified organic by Australian Organic (No. 12162) and compliant with USDA-NOP standards.

Available in 20 & 40kg blocks.

DIRECTIONS FOR USE	TYPICAL ANALYSIS			
Sheep/Goats: 5-10g per head per day Cattle: 50-100g per head per day	Molasses	2.5%	Copper (Cu)	1000mg/kg
	Sea Salt (NaCl)	81%	Cobalt (Co)	65mg/kg
	Calcium (Ca)	2.6%	Iodine (I)	500mg/kg
	Magnesium (Mg)	0.4%	Selenium (Se)	26mg/kg

ORGANIC BENTOBITE



**An organic protein supplement
containing bentonite & protein meal.**

Olsson's Organic Bentobite is a nutritional supplement containing bentonite and protein meal, formulated for inclusion in livestock feeding programs. It can be offered as part of rations during seasonal dietary changes, such as the green-pick period.

Australian Organic Certification No.12162, USDA-NOP compliant.

Available in 18 & 34kg blocks.

DIRECTIONS FOR USE	TYPICAL ANALYSIS			
Sheep/Goats: 5-10g per head per day Cattle: 50-100g per head per day	Molasses	4%	Bentonite	35%
	Sea Salt (NaCl)	49%	Calcium (Ca)	1%
	Protein Meal	10%		

ORGANIC DIATOMITE



**Provides diatomaceous earth and
bentonite.**

Olsson's Organic Diatomite is an organic lick block supplement containing diatomaceous earth and bentonite.

Certified organic by Australian Organic (No. 12162) and compliant with USDA-NOP standards.

Available in 40 & 90kg blocks.

DIRECTIONS FOR USE	TYPICAL ANALYSIS			
Sheep/Goats: 5-10g per head per day Cattle: 50-100g per head per day	Salt (NaCl)	36.4%	Bentonite	7.3%
	Molasses	29.2%	Protein Meal	4.3%
	Diatomite	19.8%	Calcium (Ca)	3%



ORGANIC HEALTH INPUT

FOR FLUOROACETATE POISONING



EFFECTS OF FLUOROACETATE POISONING ON LIVESTOCK:

The Georgina Gidgee of western Queensland & eastern Northern Territory contains fluoroacetate, a naturally occurring metabolic poison. Heartleaf Bush of the desert uplands of central Queensland & Western Australia also contain fluoroacetate. When ingested by cattle it sets off a chain of complex reactions. Enzymes react to the fluoroacetate and produce fluorocitrate, which is responsible for hypocalcemia (low calcium levels in the blood). The fluorocitrate also impairs cellular oxidative metabolism, meaning the animal's oxygen levels (and therefore energy levels) are lowered. The lower energy reduces glutamate, a chemical that nerve cells use to send signals to other cells, and with this out of wack the animal is unable to regulate acid balance and ammonia removal. This results in an increase of acidosis and an increase in ammonia within the animal.

In short, ingesting fluoroacetate containing plants causes hypocalcemia (low calcium levels), hypoglycemia (low energy levels), & interferes with acid & ammonia balance. Each of these symptoms on their own can be detrimental to cattle, and in combination are deadly.

SYMPTOMS

SYMPTOMS CAN INCLUDE:

- Rapid breathing
- Trembling
- Heart failure or irregularities
- Moderate bloat
- Frequent urination
- Bone chewing
- Sudden death, often while drinking or mustering

TOXIC PLANTS

- Georgina Gidgee (Acacia Georginae)
- Heartleaf Bush (Gastrolobium Grandiflorum)

POISONING MAP

The map below shows the approximate area where Georgina Gidgee and Heartleaf is prevalent. However, poisoning can occur outside of these areas.



SUPPLEMENTATION FOR COUNTERACTING FLUOROACETATE POISONING:

We offer two blocks, Olsson's Bio Health Booster and Olsson's Bio Health Energy, to be fed in conjunction to assist with the health issues associated with fluoroacetate poisoning. For approval to use, please contact ACO and request an Input Compliance letter.

Assists with:

Hypocalcemia, acidosis, and increased build up of fluorocitrate & ammonia

BIO HEALTH BOOSTER



Assists with:

Hypoglycemia, mineral deficiencies and high toxin levels

BIO HEALTH ENERGY



ORGANIC INPUT BIO HEALTH BOOSTER



**A supplement to assist
with absorbing toxins and
balancing rumen function**

Containing bentonite and bypass protein meal, Olsson's Bio Health Booster offers the benefits of binding toxins in the gut and balancing rumen function. It also helps to build up glutamate, regulate ammonia levels & acid balance & helps to restart cellular oxidative metabolism. Bio Health Booster also contains a blend of vitamins to assist with the storing and mobilising of calcium from the bones.

Available in 34kg blocks.

DIRECTIONS FOR USE	TYPICAL ANALYSIS			
Cattle: 50-100g per head per day	Protein Meal	20%	Calcium (Ca)	2%
	Molasses (organic)	6%	Glutamate Builder	6%
	Salt (NaCl)	28.6%	Vitamin C	4%
	Zeolite	8%	Vitamin Blend	0.1%
	Bentonite	20%	Manganese (Mn)	0.2%
	Biochar	5%	Iron (Fe)	0.1%

ORGANIC INPUT BIO HEALTH ENERGY



**A high glycerol block, assists in
maintaining energy levels required
to survive fluoroacetate poisoning**

Fluoroacetate in poisonous gidgee & heartleaf impairs the cellular oxidative metabolism, which lowers energy for maintenance & growth. Olsson's Bio Health Energy supplies glycerol for quickly building optimal energy levels. It also contains modified biochar to assist in binding fluoroacetate ions, as well as calcium & phosphorus to counteract deficiencies caused by fluoroacetate.

Available in 40kg blocks.

DIRECTIONS FOR USE	TYPICAL ANALYSIS			
Cattle: 50-100g per head per day	Protein Meal	3%	Phosphorus (P)	4.7%
	Salt (NaCl)	4%	Glycerol	20%
	Magnesium (Mg)	6.2%	Biochar	15%
	Calcium (Ca)	4.5%	Zeolite	3%



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