

**NEW  
RANGE**



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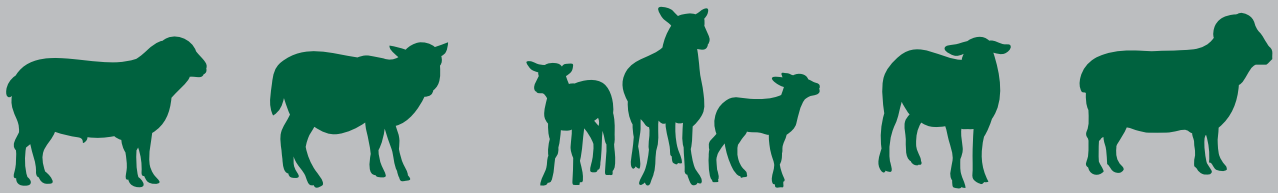


**VITAMINBUF™**

LAMB & SHEEP CONCENTRATE PELLETS

**SHEEP NUTRITION**

CONCENTRATE PELLETS FOR ADDING TO GRAIN.  
FOR SHEEP GRAZING PASTURES  
& LAMBS FINISHING IN FEEDLOTS.



JOINING

PREGNANCY

LAMBING

WEANING

FINISHING

**NUTRITION THAT STACKS UP**

# MAXIMISE HEALTH & PERFORMANCE



We passionately believe that goodness on the inside shows on the outside and most importantly delivers the best results.

Every ingredient in CopRice is selected for its nutritional value and is developed to meet the specific dietary needs of animals across their life stages.

100% goodness ensures your livestock thrive on CopRice.

Our ruminant nutrition specialists have selected quality grains and fortified them with vitamins and minerals to provide a nutrient dense feed supplement.

Added to cereal grains +/- vegetable proteins, these concentrate pellets assist in balancing nutritional deficiencies in feed, delivering optimum health and productivity for sheep grazing pastures and lambs finishing in feedlots.



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# SUPERCHARGED GRAIN BALANCER DELIVERS RESULTS.

An on-farm demonstration trial conducted in the Boyd family's sheep feedlot outside Cowra NSW, has shown how a new-generation grain balancer has dramatically outperformed a conventional concentrate.

The trial compared the performance of two pens of 80 lambs fed a barley-lupin ration containing either CopRice VitaMinBuf or a conventional sheep feedlot concentrate over 56 days.

Lambs fed VitaMinBuf recorded a higher average daily gain (+11.2%) and higher daily feed intake (+13.1%) than lambs fed the other concentrate. This improved performance translated into a higher total weight gain (2.06 kg) and higher gross margin per lamb (+\$2.06/head), despite higher feed costs (+\$3.88/head). There were no recorded deaths, pushing the gross margin per pen even higher (+\$250.67/pen).

"This trial has shown some really positive results in terms of performance and safety," CopRice nutritionist, Nicole Logg, says. "The lambs went straight onto the feed without problems, there were no mortalities and there was a definite difference in growth rates."



Lachlan Boyd



Nicole Logg

Nicole started developing VitaMinBuf about three years ago for use in her family's feeding program at Barmedman NSW.

"We were feeding barley, lupins and vetch hay, so we had sufficient protein but we needed a concentrate to supply the other ingredients we wanted," she says.

"We wanted something that was easy to use, would keep our sheep safe from grain poisoning and urinary calculi, and would help optimise growth, so the lambs can realise their full genetic potential. I couldn't find anything that contained what I wanted or wasn't ridiculously expensive, so I formulated my own."

"We've 'super-charged' tried-and-tested formulations by adding new generation ingredients to optimise health and growth and complement modern genetics. For example, we incorporated one of the best buffers on the market and introduced yeast to help maintain a stable rumen environment to improve digestibility and rumen health."

"We also added organic selenium and extra vitamin E to support the immune system, which is critical during the induction period, and for muscle development. We've also added organic chromium to support growth rates."

Nicole is justifiably proud to see her product come to market. "It's really exciting to see something that I developed for use on our own farm being offered to other producers," she says.

## TRIAL METHODOLOGY

160 lambs weighing between 40 and 45 kg were randomly designated into two pens and placed on feed. Before entering the feedlot, each lamb was vaccinated against clostridial diseases, drenched for worms and injected with vitamins A, D<sub>3</sub> and E to support immune system function and B12 to encourage appetite. An electronic ID tag was placed in the ear of each lamb to monitor weekly growth rates and to provide the ability to draft any slower growing lambs into separate pens as required. All lambs were turned off after eight weeks (56 days) on feed.

**Table 1:**  
Ration composition and fed costs

	CopRice VitaMinBuf™	Competitor
Barley (10% CP)	85%	87.5%
Cracked lupins (30% CP)	10%	10%
Concentrate	5%	2.5%
Total	100%	100%
Cost grain mix	\$310.50	\$306
Straw (@ \$50/t)	8.26%	9.56%
Cost total ration	\$288.97	\$281.54

**Table 2:**  
Feedlot performance

	CopRice VitaMinBuf™	Competitor
No. of head	80	80
Entry weight (kg)	38.24	39.16
Exit weight (kg)	58.68	57.54
Total weight gain (kg)	20.44	18.38
Average daily gain (kg/day)	0.365	0.326
Average daily intake (kg/day)	1.73	1.53
Feed conversion efficiency	4.74	4.70

**Table 3:**  
Gross margin

	CopRice VitaMinBuf™	Competitor
Total additional carcase value (48% dressing @ \$6/kg)	\$58.87	\$52.93
Total feed costs (56 days)	\$28.00	\$24.12
Margin per lamb	\$30.87	\$28.81
No. deaths (head)	0	3
Total margin per pen	\$2469.38 (80 head)	\$2218.71 (77 head)

**NUTRITION THAT STACKS UP**

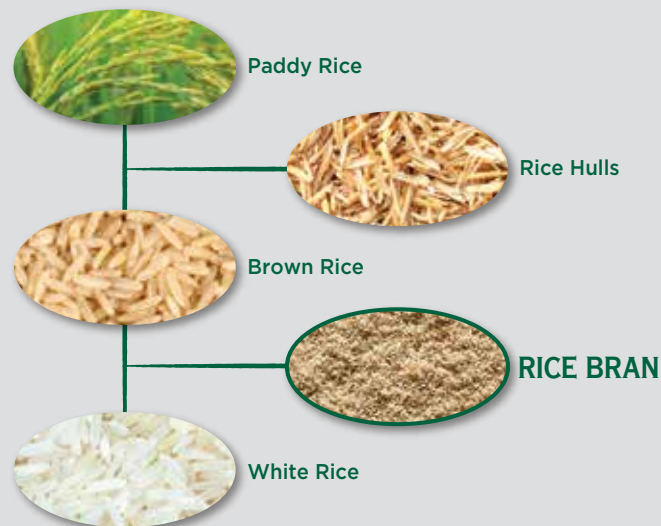
# THE POWER OF RICE BRAN IN RATIONS

COPRICE STRATEGICALLY USES RICE BRAN IN ITS ANIMAL FEEDS TO PRODUCE BALANCED, CONSISTENT AND HIGHLY DIGESTIBLE RATIONS FOR LIVESTOCK. THESE SCIENTIFICALLY FORMULATED PELLETS WILL HELP YOUR SHEEP REACH THEIR MAXIMUM POTENTIAL.

## A CLOSER LOOK AT A GRAIN OF RICE

Rice bran is the outer layer of the rice grain, removed by polishing brown rice to become white rice. It is a highly nutritious product that is a rich source of energy, protein, vitamins, minerals, fatty acids and fibre, therefore a valuable ingredient to add to feed to boost the nutritional content.

### RICE MILLING PROCESS

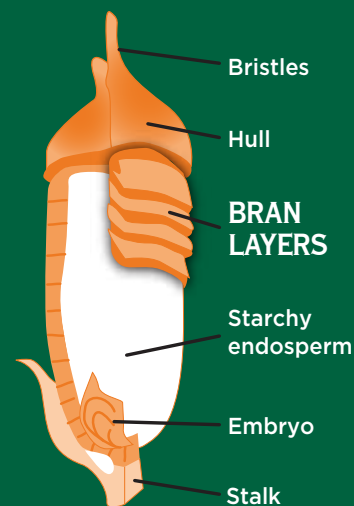


## THE NUTRITIONAL BENEFIT OF RICE BRAN

The health and productivity benefits of rice bran in livestock feed are well documented, having been well researched in Australian and international studies. Rice bran contains:

- A high rice bran oil content (up to 20%), which provides a dense source of energy.
- A significant amount of protein (up to 15%), which is essential for muscle growth and development.
- A well balanced amino acid profile, that compares favourably with other cereal bran.
- Highly digestible form of Metabolisable Energy, with no undesirable acidosis effect in the rumen.
- An excellent course of vitamin E and B-group vitamins, which help strengthen the immune system and support energy metabolism.
- Antioxidants, macro and micro-minerals, which contribute to superior health and improved condition of livestock.

### COMPOSITION OF A GRAIN OF RICE



## TYPICAL RICE BRAN COMPOSITION & NUTRITIONAL BENEFITS

TYPE	NAME	CONTENT
MONOUNSATURATED	LINOLEIC	39.8%
- Enables synthesis of prostaglandin which may play an important role in reproductive efficiency. - Linoleic acid is not made by ruminants so must be added to the diet.		
MONOUNSATURATED	OLEIC	38.3%
- Beneficial for milk yield.		
SATURATED	PALMITIC	16.2%
- Inhibits methane production. - Increases energy use for production.		
POLYUNSATURATED	OMEGA 6	3.5%
- Can be used for energy or incorporated into tissue fat.		
POLYUNSATURATED	OMEGA 3	2.2%
- Improves gestation rate (larger corpus luteum).		

## TYPICAL RICE BRAN NUTRIENT LEVELS PER kg FEED

### TYPICAL ANALYSIS (ON A DRY MATTER BASIS)

Metabolisable Energy	Min. 14.5MJ
Crude Protein	Min. 13%
Crude Fat	Min. 17%
Crude Fibre	Max. 10%
Salt	Nil
Carbohydrate	25%
Calcium	0.05%
Phosphorus	1.6%

### MACRO-MINERALS

Calcium	0.5g
Magnesium	7g
Phosphorus	16g

### MICRO-MINERALS

Copper	8mg
Iron	70mg
Manganese	250mg
Selenium	0.7mg
Zinc	60mg

### VITAMINS

Vitamin E	70mg
Vitamin B1	25mg
Vitamin B3	500mg
Vitamin B5	16mg
Choline	1,400mg
Biotin	650µg

### AMINO ACIDS

Lysine	6.5g
Methionine	3g

### FATTY ACIDS





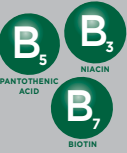


Oleic (Omega 9)
Linoleic (Omega 6)
Alpha Linolenic (Omega 3)

### ANTIOXIDANTS

Gamma Oryzanol	2,000mg
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**NUTRITION THAT STACKS UP**

# THE NUTRITIONAL BENEFITS OF RICE BRAN & RICE BRAN OIL METABOLISABLE ENERGY

	FEATURE	BENEFITS
<b>ENERGY</b> 	Rice bran has a high oil content, making it energy dense.	Rice bran contains up to 20% oil which provides a dense source of energy. It is readily consumed and easily digested, making it an effective ingredient for adding extra energy into the diet. Rice bran improves the energy status of feed which promotes optimum growth rate.
	Rice bran is a safe energy source.	Rice bran is a safe ingredient having very little risk of acidosis, therefore allowing increased feeding rates when necessary.
<b>DIGESTION</b> 	Rice bran is highly digestible.	Rice bran is easily digested resulting in improved feed efficiency which equates to better feed conversion, improved fertility and superior overall animal health.
<b>PROTEIN</b> 	Rice bran has moderate levels of protein.	Rice bran compared to other cereal grains, is a good source of essential amino acids lysine and methionine. Lysine is vital for growth and tissue repair, whilst methionine is a key component of strong, healthy hooves.
<b>FATTY ACIDS</b> 	Rice bran is a rich source of essential fatty acids.	Rice bran oil contains omega 3, 6 and 9 fatty acids. They cannot be produced by lambs or sheep so need to be included in their diet. Rice bran is particularly high in omega 9 which is important for heart and blood vessel health. Essential fatty acids have also been shown to improve flock fertility.
<b>VITAMINS</b> 	Rice bran is an excellent source of B-group vitamins.	The B-group vitamins niacin (B3) and pantothenic acids (B5) are vital for the metabolism of carbohydrate, fat and protein into energy. Niacin also helps to reduce the incidence of metabolic diseases. Biotin (B7) is needed to produce keratin, the durable protein vital for hoof health.
<b>MINERALS</b> 	Rice bran is a source of the trace minerals selenium, zinc, manganese and copper.	Rice bran is a source of selenium which protects cells from free radical damage. Selenium with the support of zinc and copper, ensures a healthy metabolism and strong immune function. Rice bran is naturally high in zinc which promotes hoof and udder health, and manganese is vital for reproduction. Copper and manganese help maintain healthy bones, joints and cartilage and have other beneficial roles in the body.
<b>ANTIOXIDANTS</b> 	Rice bran is a great source of tocopherols (including Vitamin E) antioxidants.	Rice bran is a source of tocopherols and tocotrienols, both highly effective antioxidants that are forms of vitamin E. Antioxidants helps protect cells against cells damage from free radicals which interfere with cellular function. Vitamin E works best in combination with selenium to preserve cell membrane integrity and support immunity.
	Rice bran is naturally rich in gamma oryzanol.	Gamma oryzanol is a naturally occurring anabolic compound, which increases protein levels within cells resulting in improved skeletal muscle development. It works with the body's endocrine system (collection of glands that secrete hormones directly into the circulatory system), to increase fat metabolism and improve protein synthesis.





## FEEDLOT RATION ADDITIVE

FOR ADDING TO GRAIN. IDEAL FOR FEEDLOTS.

## TO BOOST VITAMINS, MINERALS & BUFFER

Palatable and nutrient enriched pellet for boosting the supply of vitamins, macro and micro-minerals, salt and anionic salts in the diets of lambs.

Added rumen buffer and yeast help maintain healthy rumen function which helps reduce the risk of acidosis and improve digestion. Lasalocid sodium helps improve liveweight gains and feed conversion efficiency, and aids the control of coccidiosis.

### HIGH QUALITY INGREDIENTS SELECTED FROM:

Rice, rice bran, wheat, maize, canola meal, field peas, calcium carbonate, ammonium sulphate, rumen buffer, salt, yeast, vitamin and mineral premix (incl. organic selenium and chromium), molasses, canola oil, lasalocid sodium, dicalcium phosphate, mycotoxin binder.



### NUTRIENT LEVELS PER kg CONCENTRATE PELLETS

#### TYPICAL ANALYSIS (ON A DRY MATTER BASIS)

Crude Protein	Min. 20%
Crude Fat	Max. 6%
Crude Fibre	Max. 8%
Salt	Max. 5%
Calcium	Min. 9%
Rumen Buffer	Min. 6%
Anionic Salts	Min. 8%
Lasalocid Sodium	800mg
Urea	Nil

#### VITAMINS

Vitamin A	100,000 IU
Vitamin D <sub>3</sub>	10,000 IU
Vitamin E	800mg
Vitamin B1	150mg

#### MACRO-MINERALS

Calcium	90g
Magnesium	8g
Phosphorus	5g
Potassium	5g
Salt	50g
Sulphur	20g

#### MICRO-MINERALS

Cobalt	10mg
Copper	100mg
Chromium	4mg
Iodine	20mg
Iron	800mg
Manganese	550mg
Selenium	4mg
Zinc	880mg

#### FATTY ACIDS

Oleic (Omega 9)
Linoleic (Omega 6)
Alpha Linolenic (Omega 3)

#### CONTAINS MEDICATION:

Contains 4,000mg/kg of Bovatec® 20CC premix to provide 800mg/kg lasalocid sodium for improved liveweight gains and feed conversion efficiency in sheep, and as an aid in the control of coccidiosis caused by Eimeria spp. Mix VitaMinBuf™ concentrate pellets into grain mix at the recommended rate of 50kg/t to supply 40mg/head/day of lasalocid sodium.

NOTE: If using supplementary selenium do not use at the same time as any other selenised fertiliser, prill or product, and do not exceed the stated dose and frequency without consulting a veterinarian.



AUSTRALIAN MADE. FARMER OWNED.



## NUTRITION THAT STACKS UP

### PROTEIN

Rice and rice bran contain protein of high biological value, meaning good availability of amino acids for absorption. When combined with your own quality protein sources such as lupins, faba beans or field peas, these ingredients provide a source of essential amino acids which contribute to a healthy immune system, and are the building blocks vital for muscle growth and development, helping lambs to reach their genetic potential.

### MACRO-MINERALS

Calcium and phosphorus are critical for frame development, strong bones and teeth, and healthy metabolism. Magnesium helps muscle function and to manage stress. Electrolytes including salt, potassium and magnesium are vital for balancing body fluids, and maintaining nervous system health.

### RUMEN BUFFER

An optimal rumen pH improves fibre digestion and maintains healthy rumen function. Buffer helps stabilise rumen pH, significantly reducing the risk of acidosis (grain poisoning), which can cause poor feed intake, compromise energy production and cause permanent rumen damage.

### VITAMINS

Vitamin A benefits eye health, whilst vitamin D<sub>3</sub> aids calcium absorption. Vitamin E helps support immune, cardiovascular, circulatory and neuromuscular functions. Water soluble B-vitamins are vital for healthy metabolism and the efficient generation of energy for growth.

### COCCIDIOSTAT

Lasalocid sodium helps improve liveweight gains and feed conversion efficiency. It aids in the control of coccidiosis and reduction of faecal shedding of coccidia Eimeria spp, which if left untreated can result in diarrhoea, dehydration, weight loss and in acute cases death.



### MICRO-MINERALS

Organic selenium aids immunity and muscle health. Organic chromium improves glucose and amino acid uptake in muscles. Organic trace minerals are more easily absorbed, providing better nutrition over inorganic sources. Copper and manganese support bone and cartilage development. Zinc is valuable for growth and encouraging a healthy appetite.

### ANIONIC SALTS

Urinary calculi (urethra stones), commonly known as 'water belly' can be a cause of preventable loss of sheep. Anionic salts are used to acidify the urine to assist in preventing the development of calculi (stones), which can block the urethra and prevent urination, causing pain and ultimately death.

### YEAST

Yeast improves fibre digestion, promotes feed intake and enhances the absorption of nutrients, especially in younger lambs under stress. Yeast is beneficial for rumen microflora, which help stabilise rumen pH and improve rumen function. This assists with nutrient retention and can help reduce the effects of heat stress.

### MYCOTOXIN BINDER

Pastures, grains, legumes, silage and hay often contain moulds and fungi which produce mycotoxins (toxic chemical compounds) that can cause respiratory, gastrointestinal and neurological issues. Binders help capture these toxins in the digestive tract before they are absorbed into blood, removing them via excretion.

Nutritional shares of pellets are approximate only

### CONCENTRATE ADDITION RATIO (PER TONNE FEED)



### NEED EXTRA PROTEIN IN YOUR RATION?

Add CopRice VitaMinBuf™ + PROTEIN Concentrate Pellets to cereal-based rations to boost the protein content and balance nutrient deficiencies.

<b>PROTEIN</b> <b>40%</b> FOR BUILDING MUSCLE & WEIGHT GAIN	<b>RUMEN BUFFER</b> <b>6%</b> FOR REDUCING THE RISK OF ACIDOSIS	<b>ANIONIC SALTS</b> <b>8%</b> FOR REDUCING THE RISK OF URINARY CALCULI	<b>CALCIUM</b> <b>9%</b> FOR STRONG BONES & FRAME DEVELOPMENT	<b>COCCIDIOSTAT</b> <b>800</b> mg/kg FOR FEED CONVERSION EFFICIENCY
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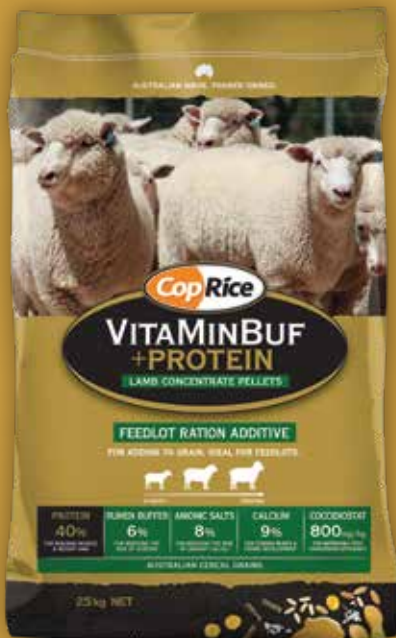
AUSTRALIAN CEREAL GRAINS

**NUTRITION THAT STACKS UP**



# VITAMINBUF™ +PROTEIN

LAMB CONCENTRATE PELLETS



## FEEDLOT RATION ADDITIVE

FOR ADDING TO GRAIN. IDEAL FOR FEEDLOTS.

## TO BOOST VITAMINS & BALANCE NUTRIENTS

Quality vegetable proteins are blended with concentrated sources of vitamins, macro and micro-minerals, salt and anionic salts, to boost the true protein and nutrient content in the diets of lambs.

Added rumen buffer and yeast help maintain healthy rumen function which helps reduce the risk of acidosis and improve digestion. Lasalocid sodium helps improve liveweight gains and feed conversion efficiency, and aids the control of coccidiosis.

### HIGH QUALITY INGREDIENTS SELECTED FROM:

Soyabean meal, cottonseed meal, field peas, canola meal, maize protein concentrate, wheat, rice, calcium carbonate, ammonium sulphate, rumen buffer, salt, yeast, vitamin and mineral premix (incl. organic selenium and chromium), molasses, canola oil, lasalocid sodium, dicalcium phosphate, mycotoxin binder.



### NUTRIENT LEVELS PER kg CONCENTRATE PELLETS

#### TYPICAL ANALYSIS (ON A DRY MATTER BASIS)

Crude Protein	Min. 40%
Crude Fat	Max. 6%
Crude Fibre	Max. 8%
Salt	Max. 5%
Calcium	Min. 9%
Rumen Buffer	Min. 6%
Anionic Salts	Min. 8%
Lasalocid Sodium	800mg
Urea	Nil

#### VITAMINS

Vitamin A	100,000 IU
Vitamin D <sub>3</sub>	10,000 IU
Vitamin E	800mg
Vitamin B1	150mg

#### MACRO-MINERALS

Calcium	90g
Magnesium	8g
Phosphorus	5g
Potassium	5g
Salt	50g
Sulphur	20g

#### MICRO-MINERALS

Cobalt	10mg
Copper	100mg
Chromium	4mg
Iodine	20mg
Iron	800mg
Manganese	550mg
Selenium	4mg
Zinc	880mg

#### FATTY ACIDS

Oleic (Omega 9)
Linoleic (Omega 6)
Alpha Linolenic (Omega 3)

#### CONTAINS MEDICATION:

Contains 4,000mg/kg of Bovatec® 20CC premix to provide 800mg/kg lasalocid sodium for improved liveweight gains and feed conversion efficiency in sheep, and as an aid in the control of coccidiosis caused by Eimeria spp. Mix VitaMinBuf™ + PROTEIN concentrate pellets into grain mix at the recommended rate of 50kg/t to supply 40mg/head/day of lasalocid sodium.

NOTE: If using supplementary selenium do not use at the same time as any other selenised fertiliser, prill or product, and do not exceed the stated dose and frequency without consulting a veterinarian.



AUSTRALIAN MADE. FARMER OWNED.





# NUTRITION THAT STACKS UP

## PROTEIN

Nutritious soyabean and cottonseed meals are some of the best sources of vegetable proteins available. Rich in bypass protein to support the growth of young lambs, these ingredients provide superior nutrient availability over non-protein nitrogen sources such as urea. Together they provide essential amino acids which contribute to a healthy immune system, and are the building blocks vital for muscle growth and development, helping lambs to reach their genetic potential.

### MACRO-MINERALS

Calcium and phosphorus are critical for frame development, strong bones and teeth, and healthy metabolism. Magnesium helps muscle function and to manage stress. Electrolytes including salt, potassium and magnesium are vital for balancing body fluids, and maintaining nervous system health.

### RUMEN BUFFER

An optimal rumen pH improves fibre digestion and maintains healthy rumen function. Buffer helps stabilise rumen pH, significantly reducing the risk of acidosis (grain poisoning), which can cause poor feed intake, compromise energy production and cause permanent rumen damage.

### VITAMINS

Vitamin A benefits eye health, whilst vitamin D<sub>3</sub> aids calcium absorption. Vitamin E helps support immune, cardiovascular, circulatory and neuromuscular functions. Water soluble B-vitamins are vital for healthy metabolism and the efficient generation of energy for growth.

### COCCIDIOSTAT

Lasalocid sodium helps improve liveweight gains and feed conversion efficiency. It aids in the control of coccidiosis and reduction of faecal shedding of coccidia *Eimeria* spp, which if left untreated can result in diarrhoea, dehydration, weight loss and in acute cases death.



### MICRO-MINERALS

Organic selenium aids immunity and muscle health. Organic chromium improves glucose and amino acid uptake in muscles. Organic trace minerals are more easily absorbed, providing better nutrition over inorganic sources. Copper and manganese support bone and cartilage development. Zinc is valuable for growth and encouraging a healthy appetite.

### ANIONIC SALTS

Urinary calculi (urethra stones), commonly known as 'water belly' can be a cause of preventable loss of sheep. Anionic salts are used to acidify the urine to assist in preventing the development of calculi (stones), which can block the urethra and prevent urination, causing pain and ultimately death.

### YEAST

Yeast improves fibre digestion, promotes feed intake and enhances the absorption of nutrients, especially in younger lambs under stress. Yeast is beneficial for rumen microflora, which help stabilise rumen pH and improve rumen function. This assists with nutrient retention and can help reduce the effects of heat stress.

### MYCOTOXIN BINDER

Pastures, grains, legumes, silage and hay often contain moulds and fungi which produce mycotoxins (toxic chemical compounds) that can cause respiratory, gastrointestinal and neurological issues. Binders help capture these toxins in the digestive tract before they are absorbed into blood, removing them via excretion.

Nutritional shares of pellets are approximate only

## CONCENTRATE ADDITION RATIO (PER TONNE FEED)

### NEED 2% EXTRA PROTEIN?



+



=



50kg - 2 Bags  
CopRice VitaMinBuf™ + PROTEIN  
Concentrate Pellets

950kg  
High Quality Cereal Grains  
+/- Vegetable Proteins

1 Tonne  
Nutritionally  
Balanced Feed

### NEED 1.5% EXTRA PROTEIN?



+



=



50kg - 2 Bags  
CopRice VitaMinBuf™ + PROTEIN &  
CopRice VitaMinBuf™ Concentrate Pellets

950kg  
High Quality Cereal Grains  
+/- Vegetable Proteins

1 Tonne  
Nutritionally  
Balanced Feed

### NEED MORE THAN 2% EXTRA PROTEIN?

Contact one of our ruminant nutritionists for a feeding program developed to meet your individual needs.  
Freecall 1800 029 901 for a consultation or to book an on-farm visit.

### HAVE ENOUGH PROTEIN?

Add CopRice VitaMinBuf™ Concentrate Pellets to cereal grains and vegetable protein ratios to balance nutrient deficiencies.

<b>RUMEN BUFFER</b> 6% <small>FOR REDUCING THE RISK OF ACIDOSIS</small>	<b>ANIONIC SALTS</b> 8% <small>FOR REDUCING THE RISK OF URINARY CALCULI</small>	<b>CALCIUM</b> 9% <small>FOR STRONG BONES &amp; FRAME DEVELOPMENT</small>	<b>COCCIDIOSTAT</b> 800 mg/kg <small>FOR IMPROVING FEED CONVERSION EFFICIENCY</small>
AUSTRALIAN CEREAL GRAINS			



# NUTRITION THAT STACKS UP



# VITAMINBUF™

EWE & LAMB CONCENTRATE PELLETS



## GREEN PASTURE SUPPLEMENT

FOR ADDING TO GRAIN. IDEAL FOR GRAZING FLOCKS.

## TO BOOST VITAMINS, MINERALS & BUFFER

Palatable and nutrient enriched pellets for boosting the supply of vitamins, macro and micro-minerals, salt and anionic salts, in the diets of ewes and lambs.

Added rumen buffer and yeast help maintain healthy rumen function which helps reduce the risk of acidosis and improve digestion, whilst the addition of organic minerals is beneficial for ovarian health, fertility and reproductive performance. Working in combination, calcium, magnesium and vitamin D, help build bone calcium reserves for the prevention of hypocalcaemia and hypomagnesia.

### HIGH QUALITY INGREDIENTS SELECTED FROM:

Maize, rice, rice bran, wheat, barley, calcium carbonate, salt, magnesium oxide, rumen buffer, dicalcium phosphate, calcium chloride, magnesium sulphate, yeast, betaine, zeolite, vitamin and mineral premix (incl. organic minerals: zinc, selenium, copper, cobalt, manganese, chromium and bio-available vitamin D), molasses, canola oil.



### NUTRIENT LEVELS PER kg CONCENTRATE PELLETS

#### TYPICAL ANALYSIS (ON A DRY MATTER BASIS)

Crude Protein	Min. 3%
Crude Fat	Max. 5%
Crude Fibre	Max. 5%
Salt	Max. 10%
Calcium	Min. 14%
Rumen Buffer	Min. 6%
Anionic Salts	Min. 5%
Lasalocid Sodium	Nil
Urea	Nil

#### VITAMINS

Vitamin A	140,000 IU
Vitamin D	14,000 IU
Vitamin E	850 IU
Vitamin B1	100mg
Vitamin B12	90µg

#### MACRO-MINERALS

Calcium	140g
Magnesium	70g
Phosphorus	10g
Potassium	2g
Salt	80g
Sulphur	4g

#### MICRO-MINERALS

Cobalt	18mg
Copper	50mg
Chromium	8mg
Iodine	30mg
Iron	400mg
Manganese	750mg
Selenium	5mg
Zinc	1,200mg

#### FATTY ACIDS

Oleic (Omega 9)
Linoleic (Omega 6)
Alpha Linolenic (Omega 3)

NOTE: If using supplementary selenium do not use at the same time as any other selenised fertiliser, prill or product, and do not exceed the stated dose and frequency without consulting a veterinarian.



AUSTRALIAN MADE. FARMER OWNED.



## NUTRITION THAT STACKS UP

### MACRO-MINERALS

As green pastures and crops contain marginal sodium, magnesium and calcium, additional quantities of each are required for optimal health. Sodium supplied from salt is vital for the absorption of magnesium which improves muscle function and aids calcium mobilisation. Calcium and phosphorus are critical for frame development, strong bones and milk production. Replenishing calcium reserves in ewes is essential for foetal frame development and minimising the risk of hypocalcaemia.

### RUMEN BUFFER

An optimal rumen pH improves fibre digestion and maintains healthy rumen function. Buffer helps stabilise rumen pH, significantly reducing the risk of acidosis (grain poisoning), which can cause poor feed intake, compromise energy production and cause permanent rumen damage.

### VITAMINS

Vitamin A benefits eye health and reproductive wellbeing whilst vitamin D is critical for calcium absorption. Vitamin E helps support immune, cardiovascular and circulatory functions, and in combination with selenium it assists muscle development. Water soluble B-group vitamins are vital for healthy metabolism.

### BETAINE

Betaine, a naturally occurring compound, helps the liver in coping with the high demands for energy needed during late pregnancy and lactation. It aids energy generation from fat reserves which assists in reducing pregnancy toxemia in pre-lambing ewes, whilst also helping to minimise the effect of heat stress.



### ORGANIC MICRO-MINERALS

Chromium supports glucose absorption by facilitating the effect of insulin on tissues. Cobalt is essential for the microbial synthesis of vitamin B12, a component of the energy production system. Selenium aids reproductive function and immunity. Copper and manganese support bone and cartilage development. Zinc is vital for hoof health and helps reduce lameness. Organic versus inorganic sources of trace minerals are more easily absorbed, thereby providing better nutrition.

### ANIONIC SALTS

Anionic Salts improve calcium availability and utilisation which is essential for the reduction of hypocalcaemia (milk fever) in late pregnancy. Low levels of calcium in blood can result in reduced muscle and nerve function, and predispose ewes to disorders such as pregnancy toxemia and dystocia (difficult lambing).

### YEAST

Yeast improves fibre digestion, promotes feed intake and enhances the absorption of nutrients, especially in sheep under stress. Yeast is beneficial for rumen microflora, helping to stabilise rumen pH and improve rumen function, which increases nutrient retention, making more available for use for growth and lactation.

### ZEOLITE

A clay-like compound which aids digestion and nutrient absorption, zeolite has also been shown to reduce the toxic effects of high ammonia levels in rumen fluid, in sheep grazing lush green feed. Zeolite minerals bind excess ammonium ions and gradually release them back into the rumen environment for use by microbes.

Nutritional shares of pellets are approximate only

## CONCENTRATE ADDITION RATIO (PER TONNE FEED)



**50kg**  
2 Bags  
CopRice VitaMinBuf™  
Green Feed  
Concentrate Pellets



**950kg**  
High Quality  
Cereal Grains

**1 Tonne**  
Nutritionally  
Balanced Feed



### HAVE DRY PASTURE?

Add CopRice VitaMinBuf™ + PROTEIN Dry Feed Concentrate Pellets to cereal-based rations to boost the protein content and balance nutrient deficiencies.

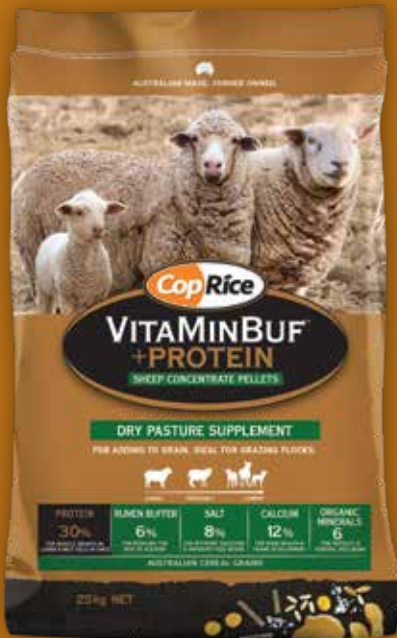
<b>PROTEIN</b> <b>30%</b> FOR MUSCLE GROWTH IN LAMBS & MILK YIELD IN EWES	<b>RUMEN BUFFER</b> <b>6%</b> FOR REDUCING THE RISK OF ACIDOSIS	<b>SALT</b> <b>8%</b> FOR NUTRIENT DIGESTION & IMPROVED FEED INTAKE	<b>CALCIUM</b> <b>12%</b> FOR BONE HEALTH & FRAME DEVELOPMENT	<b>ORGANIC MINERALS</b> <b>6</b> FOR FERTILITY & GENERAL WELLBEING
AUSTRALIAN CEREAL GRAINS				

# NUTRITION THAT STACKS UP



# VITAMINBUF™ +PROTEIN

SHEEP CONCENTRATE PELLETS



## DRY PASTURE SUPPLEMENT

FOR ADDING TO GRAIN. IDEAL FOR GRAZING FLOCKS.

## TO BOOST VITAMINS & BALANCE NUTRIENTS

Quality vegetable proteins are blended with concentrated sources of vitamins, macro and micro-minerals, salt and anionic salts, to boost the true protein and nutrient content in the diets of lambs, ewes and rams.

Added rumen buffer and yeast help maintain healthy rumen function which helps reduce the risk of acidosis and improve digestion, whilst the addition of organic minerals is beneficial for ovarian health, fertility and reproductive performance. Working in combination, calcium, magnesium and vitamin D, help build bone calcium reserves for the prevention of hypocalcaemia and hypomagnesia.

### HIGH QUALITY INGREDIENTS SELECTED FROM:

Soyabean meal, cottonseed meal, field peas, canola meal, maize protein concentrate, wheat, rice, barley, maize, calcium carbonate, ammonium sulphate, salt, rumen buffer, yeast, betaine vitamin and mineral premix (incl. organic minerals: zinc, selenium, copper, cobalt, manganese, chromium and bio-available vitamin D), molasses, canola oil, dicalcium phosphate.



### NUTRIENT LEVELS PER kg CONCENTRATE PELLETS

#### TYPICAL ANALYSIS

(ON A DRY MATTER BASIS)

Crude Protein	Min. 30%
Crude Fat	Max. 5%
Crude Fibre	Max. 5%
Salt	Max. 10%
Calcium	Min. 12%
Rumen Buffer	Min. 6%
Anionic Salts	Min. 6%
Lasalocid Sodium	Nil
Urea	Nil

#### VITAMINS

Vitamin A	140,000 IU
Vitamin D	14,000 IU
Vitamin E	850mg
Vitamin B1	100mg
Vitamin B12	90µg

#### MACRO-MINERALS

Calcium	120g
Magnesium	20g
Phosphorus	5g
Potassium	5g
Salt	80g
Sulphur	15g

#### MICRO-MINERALS

Cobalt	18mg
Copper	50mg
Chromium	8mg
Iodine	30mg
Iron	400mg
Manganese	750mg
Selenium	5mg
Zinc	1,200mg

#### FATTY ACIDS

Oleic (Omega 9)
Linoleic (Omega 6)
Alpha Linolenic (Omega 3)



NOTE: If using supplementary selenium do not use at the same time as any other selenised fertiliser, prill or product, and do not exceed the stated dose and frequency without consulting a veterinarian.



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## NUTRITION THAT STACKS UP

### PROTEIN

Nutritious soyabean and cottonseed meals are some of the best sources of vegetable proteins available. Rich in bypass protein to support the health of sheep grazing dry pasture, these ingredients provide superior nutrient availability over non-protein nitrogen sources such as urea. Together they provide essential amino acids which contribute to a healthy reproductive system, and are the building blocks vital for muscle growth in lambs, milk yield in ewes, and fertility in rams.

### MACRO-MINERALS

Dry pastures and stubbles contain marginal sodium, magnesium and calcium, additional quantities of each are required for optimal health. Sodium supplied from salt is vital for magnesium absorption which improves muscle function and aids calcium mobilisation. Calcium and phosphorus are essential for frame development, strong bones and milk production. Replenishing calcium reserves in ewes is vital for foetal frame formation and minimising the risk of hypocalcaemia.

### RUMEN BUFFER

An optimal rumen pH improves fibre digestion and maintains healthy rumen function. Buffer helps stabilise rumen pH, significantly reducing the risk of acidosis (grain poisoning), which can cause poor feed intake, compromise energy production and cause permanent rumen damage.

### VITAMINS A, E & B-GROUP

Vitamin A benefits eye health, fertility and reproductive health. Vitamin E helps support immune, circulatory and cardiovascular functions, and in combination with selenium, it assists muscle development. Water soluble B-group vitamins are vital for healthy metabolism and the efficient generation of energy for growth.

### YEAST

Yeast improves fibre digestion, promotes feed intake and enhances the absorption of nutrients, especially in sheep under stress. Yeast is beneficial for rumen microflora, helping to stabilise rumen pH and improve rumen function, which increases nutrient retention, making more available for use for growth and lactation.



### ORGANIC MICRO-MINERALS

Chromium supports glucose absorption by facilitating the effect of insulin on tissues. Cobalt is essential for the microbial synthesis of vitamin B12, a component of the energy production system. Selenium aids reproductive function and immunity. Copper and manganese support bone and cartilage development. Zinc is vital for hoof health and helps reduce lameness. Organic versus inorganic sources of trace minerals are more easily absorbed, thus providing better nutrition.

### ANIONIC SALTS

Anionic Salts improve calcium availability and utilisation which is essential for the reduction of hypocalcaemia (milk fever) in late pregnancy. Low levels of calcium in blood can result in reduced muscle and nerve function, and predispose ewes to disorders such as pregnancy toxæmia and dystocia (difficult lambing).

### VITAMIN D

Vitamin D is critical for calcium absorption from the gut and its resorption from bones. Bio-active vitamin D (a superior, more readily available form of this vitamin) enhances these processes resulting in greater calcium mobilisation. It also boosts calcium reserves which are in greater demand during late pregnancy and lambing, improving foetal development and survival.

### BETAINE

Betaine a naturally occurring compound, helps the liver in coping with the high demands for energy needed during late pregnancy and lactation. It aids energy generation from fat reserves which assists in reducing pregnancy toxæmia in pre-lambing ewes, whilst helping to minimise the effect of heat stress.

Nutritional shares of pellets are approximate only

### CONCENTRATE ADDITION RATIO (PER TONNE FEED)



**50kg**  
2 Bags  
CopRice VitaMinBuf™  
+ PROTEIN Dry Feed  
Concentrate Pellets

**950kg**  
High Quality  
Cereal Grains +/-  
Vegetable Proteins

**1 Tonne**  
Nutritionally  
Balanced Feed

### HAVE GREEN PASTURE?

Add CopRice VitaMinBuf™ Green Feed Concentrate Pellets to grain to balance nutrient deficiencies in ewes and lambs grazing green pastures.

RUMEN BUFFER	ANIONIC SALTS	CALCIUM	MAGNESIUM
<b>6%</b>	<b>5%</b>	<b>14%</b>	<b>7%</b>
FOR REDUCING THE RISK OF ACIDOSIS	TO REDUCE THE RISK OF HYPOCALCAEMIA	FOR BONE HEALTH & FRAME DEVELOPMENT	FOR GROWTH IN LAMBS & MILK PRODUCTION IN EWES
AUSTRALIAN CEREAL GRAINS			

## NUTRITION THAT STACKS UP

# NUTRITIONAL CONTENT OF FEED



## NUTRIENT LEVELS PER kg FEED

### TYPICAL ANALYSIS (ON A DRY MATTER BASIS)

Crude Protein (Min.)	20%	40%	3%	30%
Crude Fat (Max.)	6%	6%	5%	5%
Crude Fibre (Max.)	8%	8%	5%	5%
Salt (Max.)	5%	5%	10%	10%
Calcium (Min.)	9%	9%	14%	12%
Rumen Buffer (Min.)	6%	6%	6%	6%
Anionic Salts (Min.)	8%	8%	5%	6%
Lasalocid Sodium	800mg	800mg	Nil	Nil
Urea	Nil	Nil	Nil	Nil

### VITAMINS

Vitamin A	100,000 IU	100,000 IU	140,000 IU	140,000 IU
Vitamin D	10,000 IU	10,000 IU	14,000 IU	14,000 IU
Vitamin E	800mg	800mg	850mg	850mg
Vitamin B1	150mg	150mg	100mg	100mg
Vitamin B12	Nil	Nil	90µg	90µg

### MACRO-MINERALS

Calcium	90g	90g	140g	120g
Magnesium	8g	8g	70g	20g
Phosphorus	5g	5g	10g	5g
Potassium	5g	5g	2g	5g
Salt	50g	50g	80g	80g
Sulphur	20g	20g	4g	15g

### MICRO-MINERALS

Cobalt	10mg	10mg	18mg	18mg
Copper	100mg	100mg	50mg	50mg
Chromium	4mg	4mg	8mg	8mg
Iodine	20mg	20mg	30mg	30mg
Iron	800mg	800mg	400mg	400mg
Manganese	550mg	550mg	750mg	750mg
Selenium	4mg	4mg	5mg	5mg
Zinc	880mg	880mg	1,200mg	1,200mg

### FATTY ACIDS

Oleic (Omega 9)	Y	Y	Y	Y
Linolenic (Omega 6)	Y	Y	Y	Y
Alpha Linoleic (Omega 3)	Y	Y	Y	Y

### DOES NOT CONTAIN



AUSTRALIAN MADE. FARMER OWNED.

# PRODUCT DETAILS

## FEEDLOT RATION ADDITIVE

FOR ADDING TO GRAIN. IDEAL FOR FEEDLOTS.



6043 CopRice VitaMinBuf™ Bulk



6044 CopRice VitaMinBuf™ Bulker 1 Tonne



6045 CopRice VitaMinBuf™ Bag 25kg

Barcode: 9310 1400 0863 9

Pallet Quantity: 25kg x 40



6028 CopRice VitaMinBuf™ + PROTEIN Bulk



6029 CopRice VitaMinBuf™ + PROTEIN Bulker 1 Tonne



6030 CopRice VitaMinBuf™ + PROTEIN Bag 25kg

Barcode: 9310 1400 0864 6

Pallet Quantity: 25kg x 40

## GREEN PASTURE SUPPLEMENT

FOR ADDING TO GRAIN. IDEAL FOR GRAZING FLOCKS.



6370 CopRice VitaMinBuf™ Green Feed Bulk



6371 CopRice VitaMinBuf™ Green Feed Bulker 1 Tonne



6372 CopRice VitaMinBuf™ Green Feed Bag 25kg

Barcode: 9310 1400 1024 3

Pallet Quantity: 25kg x 40

## DRY PASTURE SUPPLEMENT

FOR ADDING TO GRAIN. IDEAL FOR GRAZING FLOCKS.



6367 CopRice VitaMinBuf™ + PROTEIN Dry Feed Bulk



6368 CopRice VitaMinBuf™ + PROTEIN Dry Feed Bulker 1 Tonne



6369 CopRice VitaMinBuf™ + PROTEIN Dry Feed Bag 25kg

Barcode: 9310 1400 1025 0

Pallet Quantity: 25kg x 40

**NUTRITION THAT STACKS UP**



## HAVE ANY QUESTIONS?

Contact one of our ruminant nutritionists for a feeding program developed to meet your individual needs.  
Freecall 1800 029 901 for a consultation or to book an on-farm visit.

## MANUFACTURER DETAILS

Manufactured and packed by CopRice

CopRice, Railway Ave, Leeton, NSW 2705. Phone 02 6953 0422

CopRice, Corner of Graylands & Warrnambool Rds, Cobden, VIC 3266. Phone 03 5558 2500

CopRice, Finlay Rd, Tongala, VIC 3621. Phone 03 5859 3999



A HACCP based QA accreditation program



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