



PRODUCT MANUAL

Loose Lick
Concentrates
Complete Feeds
Pellets



*Photo courtesy of the Page family,
Heifer Station, Upper Clarence, NSW*





Company Profile

Since 2007, PBA Feeds have established ourselves as a premium supplier of a wide range of stockfeed supplements, grain and loose licks.

At PBA Feeds, our professional team are confident we have a product that will suit your needs, whether you are a cattle or sheep producer, feedlot or dairy farmer. We are also now expanding into poultry feeds, including layers, breeders and duck and geese. Additionally, we have your needs for equine feed and supplements covered under the **Hyfeed** brand.

Located in Industrial Avenue, Toowoomba, PBA Feeds operates under an Australian quality assurance program and is Feedsafe accredited, with all of our products manufactured under the highest industry standards.

In addition to this, we can now manufacture PCAS (Pasturefed Cattle Assurance System) accredited products. Our mill is certified by Australian Certified Organics (ACO) to manufacture organic non-GMO full fat soybean meal, expeller soybean meal and organic livestock supplements, onsite.

PBA Feeds also trade in bulk and bagged protein meals such as palm kernel meal, canola meal and expeller soybean meal. We are a supplier of Australian non-GMO full fat soybean meal, soybean oil, expeller canola meal and canola oil, which are all manufactured onsite.

With a dedicated team of qualified staff and feed specialists, PBA Feeds can answer your enquiries on our loose lick supplements, concentrates, mineral mixes and protein meals for home mixing and can custom mix to your requirements.

As always, these products are manufactured using the highest of quality products at our Toowoomba mill. In our group of companies, we also have **PB Agrifood** (specialist grain traders and planting seed suppliers) and **Maralong Milling** (a specialist miller of alternative and gluten free flours).



LIVESTOCK SUPPLEMENTATION WITH LOOSE LICKS

- ✓ Loose licks are the most **cost-efficient** method of supplementation for livestock grazing in a paddock on natural or improved pasture, forage crops or stubble.
- ✓ They may contain some rumen degradable **protein** (eg. urea) and some protein meals that are high in bypass protein.
- ✓ Loose licks may also contain **macro minerals** such as calcium, phosphorous, magnesium, sulphur and salt, as well as micro-elements like copper, zinc, selenium, cobalt, manganese, iodine, plus vitamins A, D and E.
- ✓ Loose licks are manufactured with varying amounts of these elements to suit a wide range of stock grazing on different types of country to **balance deficiencies** in paddock feed within varying seasonal conditions.
- ✓ Successful feeding of loose licks can **increase the digestion and performance** of stock grazing low protein and high fibre diets.
- ✓ Contain elements that **optimise the rumen environment**, improve feed efficiency and increase average daily gain.

WHEN TO SUPPLEMENT?

- ✓ Dry feed supplementation is commenced when the producer decides that livestock are not to lose any more weight.
- ✓ Supplementation may begin when dietary protein in available grass falls to below 6%. The nutritional value of paddock grasses decreases as plants mature.
- ✓ One of the main points in using loose licks is to begin supplementing before livestock start to slip in condition.



PCAS ACCREDITED

PBA Feeds are accredited to manufacture Pasturefed Cattle Assurance System (PCAS) supplements.

- ✓ PCAS is an assurance program that enables the industry to prove claims relating to pasturefed or grassfed production methods.
- ✓ Buying PBA Feed PCAS supplements gives producers the guarantee and peace of mind that the supplement they are providing their cattle, contains only approved PCAS ingredients.
- ✓ The majority of our supplement range can be manufactured to comply with PCAS standards.



GENERAL WARNINGS WHEN USING LOOSE LICK

- **Urea can kill stock if consumed too quickly.** Stock must be introduced to supplements with lower urea levels initially allowing the rumen to build up an ability to utilise ammonia.
- **Never introduce supplements to hungry or starving stock** as they will most probably gorge on supplement, thus consuming urea levels that may prove toxic.
- **Keep dry at all times.** Troughs for feeding loose mix should be well drained and preferably have a roof to prevent water pooling in the loose mix.
- **Monitor consumption.** Always keep track of the animals' intake of loose lick so as to manage their supplement intake and thus their urea intake. The most effective urea level intake per head/day is between 40-80g for cattle and 4-8g for sheep.
- **Feed to the intended species.** Some loose licks contain ingredients such as Monensin that can kill horses and dogs if consumed.
- **Never let troughs go empty**, especially later in the season.
- **Do not feed loose licks in conjunction with other supplements** as toxicity may occur.
- **Clean water needs to be available at all times but don't place loose lick close to water.**
- **Loose licks are designed to be fed in conjunction with adequate pasture** or alternate roughage sources.

WHEN TO SUPPLEMENT

During the winter/dry season the protein content of most pastures falls below the percentage required to support animal production. The low protein levels reduce the intake of pasture, consequently resulting in a deficiency in energy. This energy deficiency can be overcome by feeding a protein supplement such as a loose lick to stock.

For our supplements to be effective, there must be an adequate supply of dry feed available. Loose lick supplements should ideally be introduced before conditions become dry and cattle start to lose weight.

Our loose mix supplements can be manufactured with urea levels of 0%, 5%, 10%, 15% and 20%. Urea increases microbial activity in the rumen, allowing stock to chase roughage. It allows better digestion of roughage therefore, increasing dry matter intake.

In the rumen, urea is broken down into ammonia and carbon dioxide. The ammonia is used by micro-organisms to form microbial protein. Ammonia increases the rate of microbial activity and the rate at which they break down feed. Improved and faster digestion enables increased feed intake. **The efficient use of urea can increase dry matter intake by up to 25-30%.**



Did you know that PBA Feeds also offer...

Custom Mixes

At PBA Feeds we are proud to be able to provide our customers the best supplements to suit their cattle and pasture needs.

We have a wide range of supplements to suit the majority of situations. But we all know, one size does not always fit all, so to help overcome this we are able to custom mix supplements to suit your exact needs.

With a 1t only minimum for your custom supplement we can help correct pasture imbalances, help combat hoof problems and help with tick problems. Plus, many other specific issues that you may be facing.



PRACTICAL FEEDING OF LOOSE LICK

Slowing Consumption

- If the stock that you are supplementing are non-lactating cows, steers or bullocks then you can adjust intake by adding one bag of loose lick to one bag of salt and then slowly decrease salt content as the consumption rates fall below recommended daily intakes. The addition of salt will add extra bitterness to the product.
- If you are feeding lactating cattle or weaners, then to slow consumption you would add DCP (dicalcium phosphate). At an initial mixing rate of one bag of loose lick to equal weight of DCP and then slowly decrease DCP as the consumption slows.
- Beware of cattle that are salt hungry or phosphorus deficient as these may make stock increase their consumption in the short term.

Increasing Consumption

- If the loose lick intakes are not up to recommended daily intake, it is advised that you introduce into the top of the loose lick supplement a palatable protein meal. It should be introduced to entice cattle to consume correct daily intakes. The protein meal would need to be incorporated into the top 6 inches (15cm) of loose lick, so that the stock gains a taste for the supplement.

RECORDS TO KEEP

- The number of livestock in the paddock
- The amount of loose lick put into troughs
- The number of days taken to consume the loose lick

CALCULATIONS TO MAKE

- **Daily Intake** = $\text{kg of lick} / \text{Number of days} / \text{Number of Head} \times 1000$
- **Cost Per Head** = $\text{Cost of lick} / 1000 / 1000 \times \text{Daily Intake}$



On Farm Nutritional Support

Our sales and nutrition team love getting out on farm. We are able to get a first-hand grasp on your specific situation including your pastures, your cattle and your supplement program.

If you would like a visit from one of our team, contact us directly or through your local agent and we will be more than happy to organise a visit.

We are also able to do local education events. If you and your neighbours are wanting some more information on our licks and what we can provide for you, we are more than happy to hold an event.



LOOSE LICK FEEDER RANGE

Call PBA Feeds on 07 4633 2266 to
order your Mineral Feeders today!

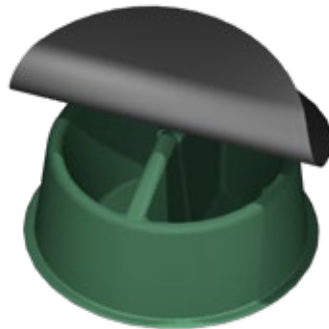
**Don't risk
urea poisoning!**

Our Mineral Feeder gives
your feed weatherproof
protection and is
accessible to stock
around the clock!



Mineral Feeders

- ✓ Feeder available in 120L & 250L capacity
- ✓ Weather-proof
- ✓ Flexible rubber roof which cattle lift up to access feed
- ✓ Peg down points to prevent livestock pushing trough around
- ✓ Durable and rust-free
- ✓ Cost effective



Covered Mineral Feeder

- ✓ 500L capacity feeder
- ✓ Durable roof with overhang to protect feed from the elements
- ✓ Raised tub for extra feed protection
- ✓ Swivel lid for easy refilling
- ✓ Lid can be assembled to open to the left or to the right
- ✓ Lid can be latched securely in the closed position to prevent stock opening it



NO LIFT!

**Innovative new swivel lid
for easy filling.**

Designed to minimise risk of back
strain or injury when refilling tub.

Hylick New England is a range of loose licks formulated for grazing cattle that:

- ✓ Greatly assists in maintaining body weight and correcting vitamin and mineral deficiency in stock
- ✓ Contains Monensin to improve feed efficiency
- ✓ Contains bypass proteins & urea that encourages grazing & better utilisation of dry feed

Directions of Use: Feed in a well drained trough which is protected from the weather

Average Consumption Rate: 200 – 500 grams / head / day

Please note: Livestock should be introduced to dry licks on urea levels under 10% so as to accustom the rumen to urea before feeding licks at higher urea levels such as 15% and 20%

TYPICAL ANALYSIS PER KG

Product	0%	5%	10%	15%	20%	
Total Protein (Min)	10	28	43	57	71	%
Crude Protein (Min)	10	14	14.	14	14	%
Equivalent Crude Protein (Min)	0	14	29	43	57	%
Urea (Max)	0	5	10	15	20	%
Crude Fat (Min)	7	4	5	4	3	%
Crude Fibre (Max)	4	6	4	4	4	%
Salt (Max)	20	20	20	20	20	%
Calcium (Min)	99	109	79	91	89	g/kg
Magnesium (Min)	3	2	2	1	2	g/kg
Phosphorous (Min)	12	13	13	12	11	g/kg
Sulphur (Min)	11	12	7	17	26	g/kg
Cobalt (Min)	6	6	6	6	6	mg/kg
Copper (Min)	127	124	122	123	123	mg/kg
Iodine (Min)	3	3	3	3	3	mg/kg
Iron (Min)	113	97	107	79	59	mg/kg
Manganese (Min)	179	156	138	150	144	mg/kg
Selenium (Min)	3	3	3	3	3	mg/kg
Zinc (Min)	503	502	488	498	493	mg/kg
Vitamin A (Min)	31 200	31 200	31 200	31 200	31 200	IU/kg
Vitamin D (Min)	2 400	2 400	2 400	2 400	2 400	IU/kg
Vitamin E (Min)	72	72	72	72	72	mg/kg
Mj/kg	6	5	6	4	3	Mj/kg
Active Constituent (Monensin per kg)	300	300	300	300	300	mg

Analysis & materials used are subject to availability of ingredients due to seasonal variations.



Hylick Grower is a range of loose licks formulated for grazing cattle that:

- ✓ Greatly assists in maintaining body weight and correcting vitamin and mineral deficiency in stock
- ✓ Contains Monensin to improve feed efficiency
- ✓ Contains bypass proteins & urea that encourages grazing & better utilisation of dry feed

Directions of Use: Feed in a well drained trough which is protected from the weather

Average Consumption Rate: 100 – 500 grams / head / day

Please note: Livestock should be introduced to dry licks on urea levels under 10% so as to accustom the rumen to urea before feeding licks at higher urea levels such as 15% and 20%.

TYPICAL ANALYSIS PER KG

Product	0%	5%	10%	15%	20%
Total Protein (Min)	14	26	41	56	71 %
Crude Protein (Min)	14	12	12	12	13 %
Equivalent Crude Protein (Min)	0	14	29	43	57 %
Urea (Max)	0	5	10	15	20 %
Crude Fat (Min)	6	4	3	3	2 %
Crude Fibre (Max)	4	4	4	4	4 %
Salt (Max)	15	20	20	20	20 %
Calcium (Min)	102	116	115	102	96 g/kg
Magnesium (Min)	11	7	7	1	1 g/kg
Phosphorous (Min)	23	21	21	21	20 g/kg
Sulphur (Min)	13	12	17	22	26 g/kg
Cobalt (Min)	10	10	10	10	10 mg/kg
Copper (Min)	205	204	203	203	202 mg/kg
Iodine (Min)	5	5	5	5	5 mg/kg
Iron (Min)	118	86	70	67	52 mg/kg
Manganese (Min)	248	236	228	225	220 mg/kg
Selenium (Min)	5	5	5	5	5 mg/kg
Zinc (Min)	826	819	815	815	812 mg/kg
Vitamin A (Min)	52 000	52 000	52 000	52 000	52 000 IU/kg
Vitamin D (Min)	4 000	4 000	4 000	4 000	4 000 IU/kg
Vitamin E (Min)	120	120	120	120	120 mg/kg
Mj/kg	6	5	4	4	3 Mj/kg
Active Constituent (Monensin per kg)	300	300	300	300	300 mg

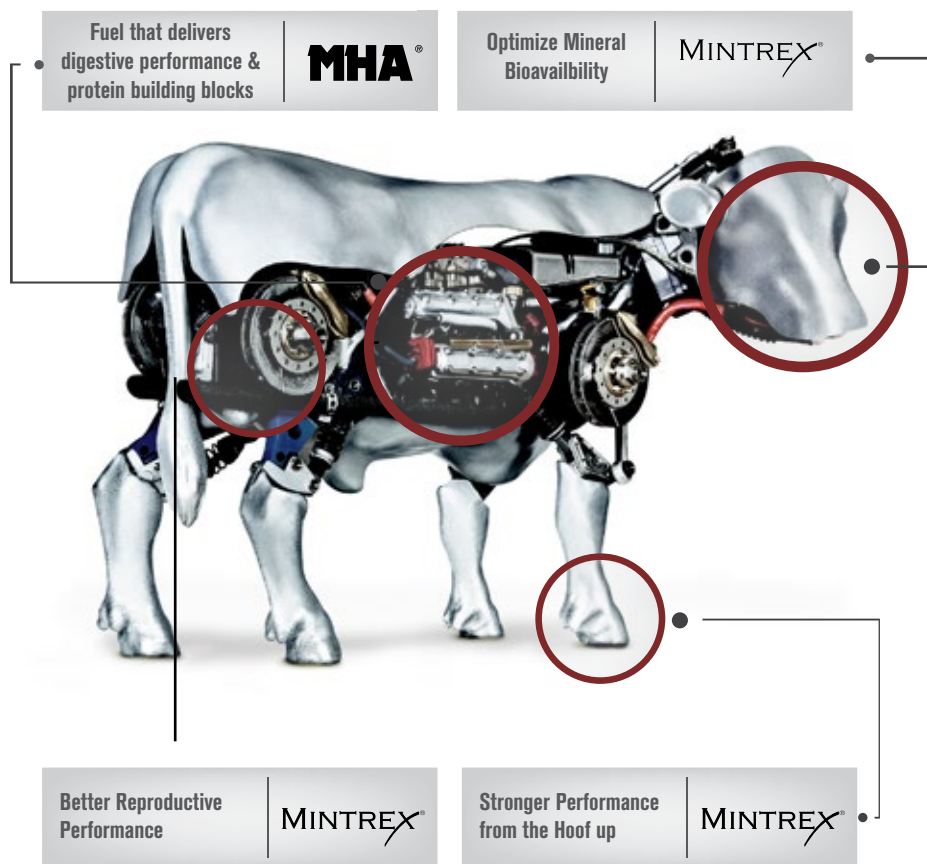
Analysis & materials used are subject to availability of ingredients due to seasonal variations.

MINTREX[®]

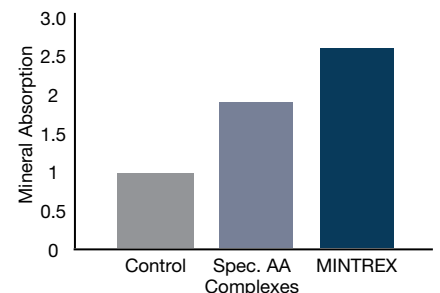
Beef Up Your Cash Cow with Organic Trace Minerals

Novus Solutions

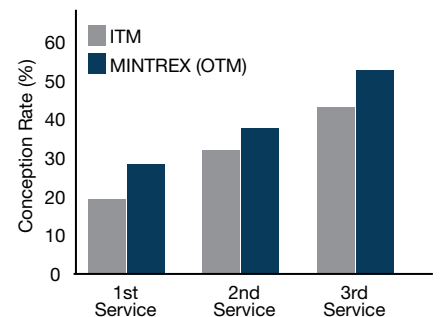
Novus specialises in advanced animal nutrition that helps produce maximum results and profits to beef producers worldwide. Tune up your herd nutrition with Novus chelated trace minerals and amino acid supplementation to help build structural integrity, assemble more beef, sustain hormone levels and preserve oxidative balance.



MINTREX[®] significantly increases mineral absorption



MINTREX[®] increases conception rate from 1st service



Products not available in all countries.

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NOVUS[®]

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Hylick Breeder is a loose lick especially formulated for supplementing cows & heifers to greatly assist in improving:

- ✓ Overall herd health
- ✓ Conception rates
- ✓ Phosphorous and trace mineral deficiency
- ✓ Best used 8 weeks before and through joining
- ✓ Contains Monensin to improve feed efficiency
- ✓ Contains bypass proteins & urea that encourages grazing & better utilisation of feed
- ✓ Contains Mintrex[®] a specially formulated blend of Zinc, Copper, Manganese, Selenium & methionine

Directions of Use: Feed in a well drained trough which is protected from the weather

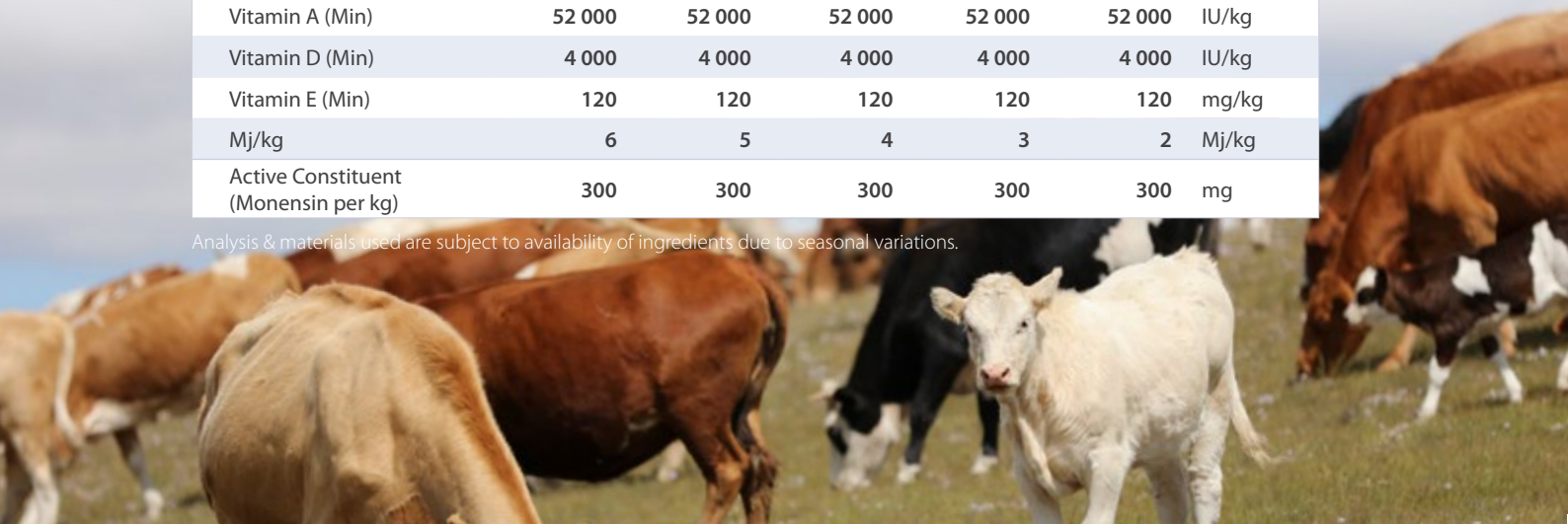
Average Consumption Rate: 100 – 500 grams / head / day

Please note: Livestock should be introduced to dry licks on urea levels under 10% so as to accustom the rumen to urea before feeding licks at higher urea levels such as 15% and 20%.

TYPICAL ANALYSIS PER KG

Product	0%	5%	10%	15%	20%	
Total Protein (Min)	13	28	41	54	70	%
Crude Protein (Min)	13	13	13	11	12	%
Equivalent Crude Protein (Min)	0	14	29	43	57	%
Urea (Max)	0	5	10	15	20	%
Crude Fat (Min)	5	4	3	3	1	%
Crude Fibre (Max)	4	4	4	4	4	%
Salt (Max)	10	10	20	20	20	%
Calcium (Min)	115	120	99	100	101	g/kg
Magnesium (Min)	13	10	7	1	1	g/kg
Phosphorous (Min)	40	40	40	40	40	g/kg
Sulphur (Min)	22	22	17	16	30	g/kg
Cobalt (Min)	10	10	10	10	10	mg/kg
Copper (Min)	334	333	331	331	329	mg/kg
Iodine (Min)	5	5	5	5	5	mg/kg
Iron (Min)	108	93	69	58	36	mg/kg
Manganese (Min)	357	349	336	335	323	mg/kg
Selenium (Min)	6	6	6	6	6	mg/kg
Zinc (Min)	1098	1095	1090	1087	1083	mg/kg
Vitamin A (Min)	52 000	52 000	52 000	52 000	52 000	IU/kg
Vitamin D (Min)	4 000	4 000	4 000	4 000	4 000	IU/kg
Vitamin E (Min)	120	120	120	120	120	mg/kg
Mj/kg	6	5	4	3	2	Mj/kg
Active Constituent (Monensin per kg)	300	300	300	300	300	mg

Analysis & materials used are subject to availability of ingredients due to seasonal variations.





Palgrove employees, Charlie Howard and Roy Pilkington, with some of the Spring 2019 drop Charolais bulls, at "Hedgereroy", Ben Lomond, New South Wales

Palgrove Charolais

“ Having used a range of PBA Feeds supplements over their herd of purebred Charolais for the past six years, Palgrove’s David Smith, is very happy with the results.

One of Australia’s largest Charolais studs, Palgrove’s weaner heifers and bulls are supplemented with **Green Feed 80**.

“All our stud heifers are fed on oats, rye and turnip pastures, and we use **Green Feed 80** to grow them out to join – it’s perfect”, David said.

“We find we get more heifers up to joining weight quicker in Spring. We are very happy with the product as it gets results,” he said.

Palgrove’s stud and recipient cows are also fed PBA’s **Breeder Lick**.

“The cows really did well, and we are very happy with product,” David said.

“I find the intake is well controlled which is very important when feeding supplements. The cattle eat at a steady rate.

“We first started using PBA’s **Bloatliq**, and have had outstanding success with it when we’ve had an abundance of clover.”

Hylick Hi Phos is a loose lick especially formulated for supplementing cows & heifers in phosphorus deficient country to assist in improving:

- ✓ Overall herd health
- ✓ Conception rates
- ✓ Phosphorus & trace mineral deficiency

Directions of Use: Feed in a well drained trough which is protected from the weather

Average Consumption Rate: 50-200 grams / head / day

TYPICAL ANALYSIS PER KG

Total Protein (Min)	6 %	Cobalt (Min)	50 mg/kg
Crude Protein (Min)	6 %	Copper (Min)	910 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	20 mg/kg
Urea (Max)	0 %	Iron (Min)	15 mg/kg
Crude Fat (Min)	2 %	Manganese (Min)	910 mg/kg
Crude Fibre (Max)	2 %	Selenium (Min)	23 mg/kg
Salt (Max)	5 %	Zinc (Min)	3 563 mg/kg
Calcium (Min)	190 g/kg	Vitamin A (Min)	208 000 IU/kg
Magnesium (Min)	12 g/kg	Vitamin D (Min)	16 000 IU/kg
Phosphorous (Min)	90 g/kg	Vitamin E (Min)	480 mg/kg
Sulphur (Min)	50 g/kg	Mj/kg	1.6 Mj/kg
Active Constituent	NIL		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

THE RUMEN: A POWERFUL ENGINE DRIVING YOUR HERD'S PERFORMANCE

UP TO
7%
MORE MILK

UP TO
6%
MORE MEAT



GET MORE POWER OUT OF THE RUMEN

LEVUCCELL SC Rumen Specific Live Yeast* can improve your herd's performance across all stages of dairy and beef production and help you protect the environment by producing more milk or meat with the same amount of feed.

LEVUCCELL SC helps maximise energy, improve rumen pH – reducing the risk of Sub Acute Ruminal Acidosis (SARA) – aid rumen development and increase fibre digestibility.

Feed LEVUCCELL SC Rumen Specific Live Yeast every day and fine-tune your herd to peak efficiency.

Levucell SC
Rumen Specific Yeast



*Saccharomyces cerevisiae CNCM I-1077

Hylick Green Forage is formulated specifically to supplement cattle grazing on forage sorghum & lush green pastures.

- ✓ Can be used for most types of winter & summer grasses & pastures
- ✓ High sulphur lick helps combat prussic acid in forage sorghum & sorghum stubble
- ✓ Helps prevent nitrate toxicity issues in both pasture & forage
- ✓ Contains bypass proteins that encourages grazing & better utilisation of feed
- ✓ Maximises weight gain on green feed & forage
- ✓ Minimises scouring
- ✓ Contains Monensin to improve feed efficiency

Directions of Use: Feed in a well drained trough which is protected from the weather

Average Consumption Rate: 200 – 500 grams / head / day

TYPICAL ANALYSIS PER KG

Total Protein (Min)	8 %	Cobalt (Min)	20 mg/kg
Crude Protein (Min)	8 %	Copper (Min)	322 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	10 mg/kg
Urea (Max)	0 %	Iron (Min)	39 mg/kg
Crude Fat (Min)	3 %	Manganese (Min)	422 mg/kg
Crude Fibre (Max)	4 %	Selenium (Min)	10 mg/kg
Salt (Max)	15 %	Zinc (Min)	1 600 mg/kg
Calcium (Min)	70 g/kg	Vitamin A (Min)	104 000 IU/kg
Magnesium (Min)	30 g/kg	Vitamin D (Min)	8 000 IU/kg
Phosphorous (Min)	20 g/kg	Vitamin E (Min)	240 mg/kg
Sulphur (Min)	50 g/kg	Mj/kg	6.5 Mj/kg
Active Constituent	300 mg/kg Monensin		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

Hylick Green Feed 80 is designed to be fed to cattle grazing lush green feed such as ryegrass or oats in order to better utilise available protein.

- ✓ Assists in preventing metabolic disorders such as grass tetany by balancing minerals, in particular calcium and magnesium, which are tied up from high soluble protein, high potassium and high lipids in green feed
- ✓ Assists in maintaining a correct sulphur-nitrogen ratio to enable livestock to improve their performance on green pasture
- ✓ Greatly assists the digestive system to utilise green feed and to help reduce scouring
- ✓ Contains a condensed energy source to help balance the energy to protein ration in the diet

Directions of Use: Feed in a well drained trough which is protected from the weather

Average Consumption Rate: 80-100 grams / head / day

TYPICAL ANALYSIS PER KG

Total Protein (Min)	2 %	Cobalt (Min)	40 mg/kg
Crude Protein (Min)	2 %	Copper (Min)	800 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	20 mg/kg
Urea (Max)	0 %	Iron (Min)	28 mg/kg
Crude Fat (Min)	0.7 %	Manganese (Min)	812 mg/kg
Crude Fibre (Max)	2 %	Selenium (Min)	20 mg/kg
Salt (Max)	15 %	Zinc (Min)	3 200 mg/kg
Calcium (Min)	120 g/kg	Vitamin A (Min)	208 000 IU/kg
Magnesium (Min)	36 g/kg	Vitamin D (Min)	16 000 IU/kg
Phosphorous (Min)	28 g/kg	Vitamin E (Min)	480 mg/kg
Sulphur (Min)	50 g/kg	Non-Structural Carbohydrate	14 %
Active Constituent	500 mg/kg Monensin		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.



New England Hi Mag is a loose lick supplement to be fed to cattle grazing lush green feed such as ryegrass, oats and other improved pastures.

- ✓ Assists in preventing metabolic disorders such as grass tetany by balancing minerals, in particular calcium and magnesium, which are tied up from high soluble protein, high potassium and high lipids in green feed

Directions of Use: Feed in a well drained trough that is protected from weather

Average Consumption Rate: 200-500 grams / head / day

Typical Analysis per kg

Total Protein (Min)	5 %	Cobalt (Min)	8 mg/kg
Crude Protein (Min)	5 %	Copper (Min)	161 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	4 mg/kg
Urea (Max)	0 %	Iron (Min)	18 mg/kg
Crude Fat (Min)	4 %	Manganese (Min)	182 mg/kg
Crude Fibre (Max)	6 %	Selenium (Min)	4 mg/kg
Salt (Max)	10 %	Zinc (Min)	648 mg/kg
Calcium (Min)	80 g/kg	Vitamin A (Min)	41 000 IU/kg
Magnesium (Min)	60 g/kg	Vitamin D (Min)	3 200 IU/kg
Phosphorous (Min)	0.6 g/kg	Vitamin E (Min)	96 mg/kg
Sulphur (Min)	20 g/kg	Non-Structural Carbohydrate	13.8 %
Active Constituent	200 mg/kg Monensin		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

PBA Bloatliq is a loose lick fed to cattle grazing lush spring/summer pastures as an aid in the control of bloat.

- ✓ Aids in balancing minerals, in particular calcium and magnesium, which are tied up from high soluble protein, high potassium and high lipids in green feed
- ✓ Maintains a correct sulphur/nitrogen ratio to enable livestock to improve their performance
- ✓ Contains oil and an anti-foaming agent

Directions of Use: Feed in a well drained trough that is protected from weather

Average Consumption Rate: 200-400 grams / head / day

Typical Analysis per kg

Total Protein (Min)	10 %	Cobalt (Min)	10 mg/kg
Crude Protein (Min)	10 %	Copper (Min)	161 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	5 mg/kg
Urea (Max)	0 %	Iron (Min)	61 mg/kg
Crude Fat (Min)	6.5 %	Manganese (Min)	210 mg/kg
Crude Fibre (Max)	5 %	Selenium (Min)	5 mg/kg
Salt (Max)	5 %	Zinc (Min)	1 011 mg/kg
Calcium (Min)	30 g/kg	Vitamin A (Min)	52 000 IU/kg
Magnesium (Min)	16 g/kg	Vitamin D (Min)	4 000 IU/kg
Phosphorous (Min)	6 g/kg	Vitamin E (Min)	120 mg/kg
Sulphur (Min)	21 g/kg	Mj/kg	8 Mj/kg
Active Constituent	500 mg/kg Monensin		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.



Hylick WP Cattle Minerals is a loose lick with a balanced level of macro and micro minerals to maximise performance of cattle on improved pastures.

- ✓ May assist in the prevention of grass tetany in cattle
- ✓ Contains a weather proofing agent to repel moisture in a paddock ad lib feed situation
- ✓ It can be used for all types of cattle that are mineral deficient grazing in poorer country

Directions of Use: Feed in a well drained trough which is protected from the weather

Average Consumption Rate: 80-120 grams / head / day

TYPICAL ANALYSIS PER KG

Total Protein (Min)	0 %	Cobalt (Min)	80 mg/kg
Crude Protein (Min)	0 %	Copper (Min)	1 600 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	40 mg/kg
Urea (Max)	0 %	Iron (Min)	5 mg/kg
Crude Fat (Min)	0 %	Manganese (Min)	1 600 mg/kg
Crude Fibre (Max)	0 %	Selenium (Min)	40 mg/kg
Salt (Max)	25 %	Zinc (Min)	6 400 mg/kg
Calcium (Min)	100 g/kg	Vitamin A (Min)	416 000 IU/kg
Magnesium (Min)	110 g/kg	Vitamin D (Min)	32 000 IU/kg
Phosphorous (Min)	60 g/kg	Vitamin E (Min)	960 mg/kg
Sulphur (Min)	25 g/kg	Mj/kg	0 Mj/kg
Active Constituent	NIL		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.



Sam and Jodie Martin, Southcote Shorthorns

“Witnessing great improvements in their herd since using PBA Feeds, the Martin family of Southcote Shorthorns believe the proof is in their results.

Sam and Jodie Martin, and their three young children, Max, Lucy and Ivy, operate their successful Shorthorn operation at 'Rambrah', east of Walcha in the New England tablelands.

The family started with PBA Feeds during the drought of 2018, and have not looked back, using PBA products in the preparation of their show and sale bulls, as well as their impressive female portion.

Since they commenced using PBA Feeds, the Martin's have reduced the cost of supplementary feeding by 38 percent as a result of utilising more efficient feeding methods. Sam Martin said they have also seen a 7 percent improvement in their preg testing rate, and have not experienced any herd health issues.

“Our show and sale cattle have looked the best we have ever had them,” Sam said. “I think the cattle look just awesome.”

PBA products used at Southcote Shorthorns include the **Grower 10% Lick**, **Advanced Bull Concentrate**, **Agriliq Basic**, **Solvent Soymeal** and **Full Fat Soybean Meal**.

Hylick Production 4% provides higher levels of supplementary bypass protein and energy to promote growth in livestock.

- ✓ Ideal to grow out heifers and young bulls
- ✓ Must be fed with an adequate supply of paddock forage
- ✓ Maximises weight gain in stock to promote a quicker turnoff of animals

Directions of Use: Feed in a well drained trough which is protected from the weather

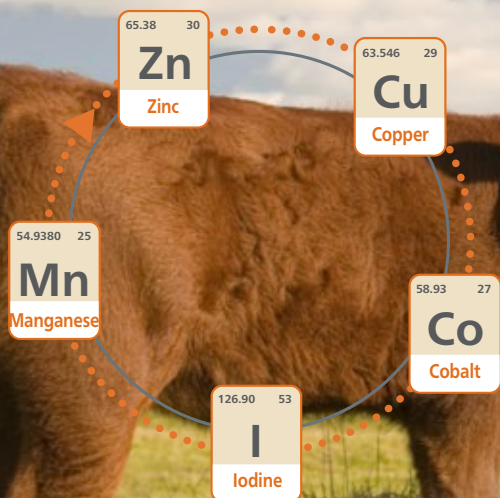
Average Consumption Rate: 1 – 1.5 kilograms / head / day

TYPICAL ANALYSIS PER KG

Total Protein (Min)	30 %	Cobalt (Min)	4 mg/kg
Crude Protein (Min)	19 %	Copper (Min)	84 mg/kg
Equivalent Crude Protein (Min)	11 %	Iodine (Min)	2 mg/kg
Urea (Max)	4 %	Iron (Min)	85 mg/kg
Crude Fat (Min)	6 %	Manganese (Min)	132 mg/kg
Crude Fibre (Max)	11 %	Selenium (Min)	2 mg/kg
Salt (Max)	8 %	Zinc (Min)	343 mg/kg
Calcium (Min)	32 g/kg	Vitamin A (Min)	20 000 IU/kg
Magnesium (Min)	5 g/kg	Vitamin D (Min)	1 600 IU/kg
Phosphorous (Min)	8 g/kg	Vitamin E (Min)	48 mg/kg
Sulphur (Min)	6 g/kg	Mj/kg	8 mj/kg
Active Constituent	NIL		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

The form of minerals matter



The Advantages of BIOPLEX®:

Protection against interactions

BIOPLEX minerals do not combine with other digesta components to form unabsorbable compounds.

More routes for mineral absorption

BIOPLEX minerals take advantage of both amino acid and peptide absorption routes.

Easily transported to target tissues

Research has shown that plasma transport of BIOPLEX minerals does not compete with inorganic mineral transport mechanisms.

Hylick Mulga is a loose lick suited to supplementing cattle that are grazing mulga in their diet.

It will assist in:

- ✓ Increasing consumption & aids in digestion of mulga
- ✓ Increasing dry matter intakes by up to 20%
- ✓ Maintaining body weight and correcting vitamin & mineral deficiency in stock
- ✓ Contains Monensin to improve feed efficiency
- ✓ Contains bypass proteins & urea that encourages grazing & better utilisation of feed
- ✓ Hylick Mulga Mix 10% and 15% contain Polyethelene Glycol (PEG) to assist in breaking down condensed tannins present in mulga

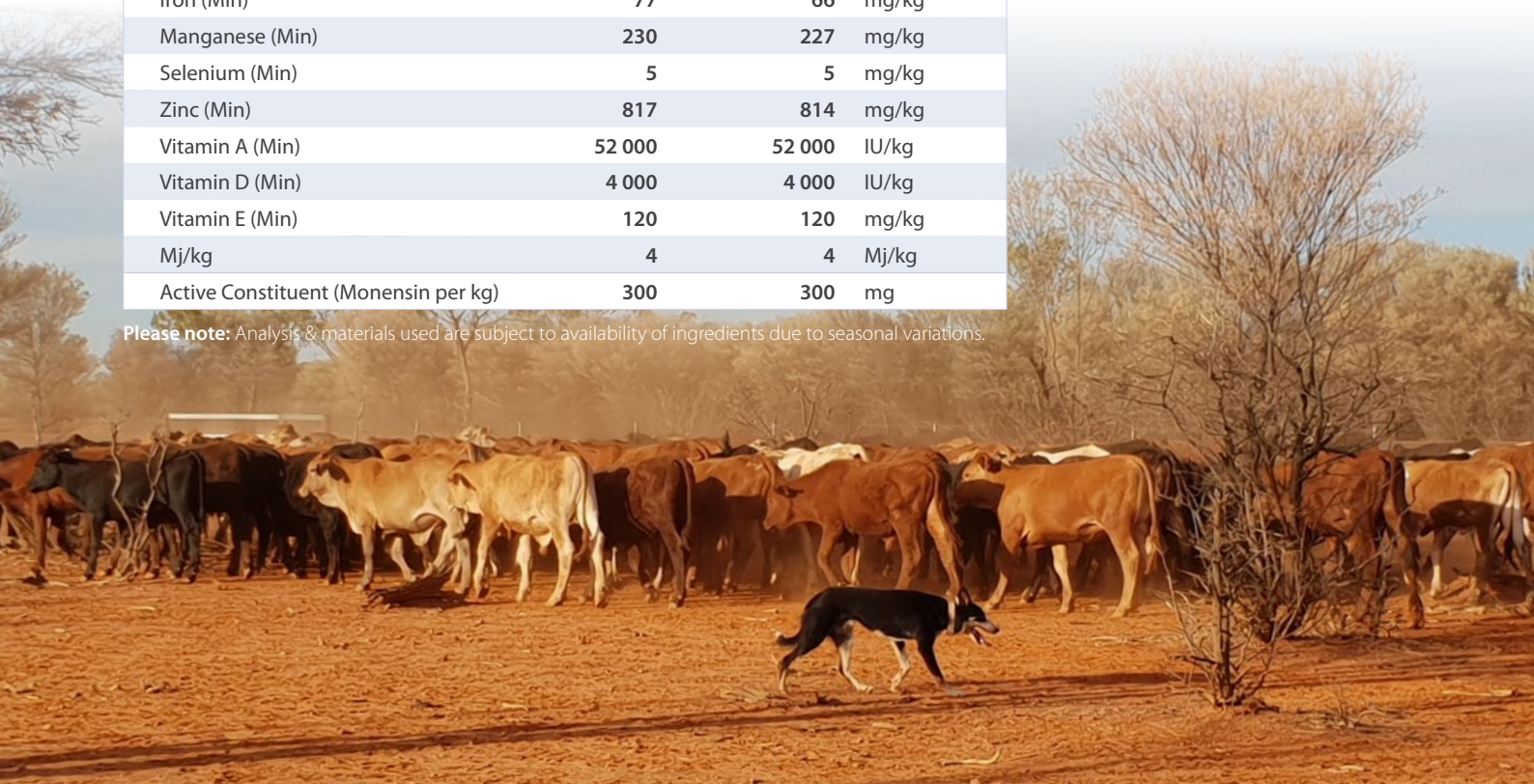
Directions of Use: Feed in a well drained trough which is protected from the weather

Average Consumption Rate: 200 – 500 grams / head / day

TYPICAL ANALYSIS PER KG

Product	10%	15%	
Total Protein (Min)	41	55	%
Crude Protein (Min)	10	12	%
Equivalent Crude Protein (Min)	31	43	%
Urea (Max)	10	15	%
Crude Fat (Min)	4	3	%
Crude Fibre (Max)	4	4	%
Salt (Max)	20	20	%
Calcium (Min)	100	89	g/kg
Magnesium (Min)	1	2.5	g/kg
Phosphorous (Min)	21	20	g/kg
Sulphur (Min)	16	21	g/kg
Cobalt (Min)	10	10	mg/kg
Copper (Min)	200	203	mg/kg
Iodine (Min)	5	5	mg/kg
Iron (Min)	77	66	mg/kg
Manganese (Min)	230	227	mg/kg
Selenium (Min)	5	5	mg/kg
Zinc (Min)	817	814	mg/kg
Vitamin A (Min)	52 000	52 000	IU/kg
Vitamin D (Min)	4 000	4 000	IU/kg
Vitamin E (Min)	120	120	mg/kg
Mj/kg	4	4	Mj/kg
Active Constituent (Monensin per kg)	300	300	mg

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.



A supplement based on anionic (acid) salts and very high levels of vitamins & minerals to be fed to springing cows to:

- ✓ Provide the cow with extra minerals to build up the immune system and provide the extra nutrients for a strong, healthy calf
- ✓ Helps make the blood acidic which stimulates the cow to mobilise calcium which is necessary for making muscles contract and reduce the effects of milk fever
- ✓ Contains high levels of vitamins & trace minerals to help reduce the effects of milk fever & other metabolic problems such as ketosis, retained foetal membranes & metritis

Directions of Use: 200 grams per cow per day mixed with 2kg of cracked grain.

Feed for 14-21 days before calving.

TYPICAL ANALYSIS PER KG

Total Protein (Min)	1.2 %	Cobalt (Min)	50 mg/kg
Crude Protein (Min)	0 %	Copper (Min)	1 000 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	25 mg/kg
Urea (Max)	0 %	Iron (Min)	7 mg/kg
Crude Fat (Min)	0 %	Manganese (Min)	1 000 mg/kg
Crude Fibre (Max)	0 %	Selenium (Min)	25 mg/kg
Salt (Max)	0 %	Zinc (Min)	4 000 mg/kg
Calcium (Min)	130 g/kg	Vitamin A (Min)	240 000 IU/kg
Magnesium (Min)	50 g/kg	Vitamin D (Min)	20 000 IU/kg
Phosphorous (Min)	0 g/kg	Vitamin E (Min)	600 mg/kg
Sulphur (Min)	120 g/kg	Mj/kg	1.5 mj/kg
Active Constituent	1 000 mg/kg Monensin		

A vitamin, mineral & trace element supplement to be blended in milk or grain for young calves.

- ✓ Assists with calf health & development
- ✓ Contains Monensin to help control coccidiosis

Directions of Use: 20 grams per calf per day thoroughly mixed into milk or feed

TYPICAL ANALYSIS PER KG

Total Protein (Min)	9 %	Cobalt (Min)	100 mg/kg
Crude Protein (Min)	0 %	Copper (Min)	1 000 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	100 mg/kg
Urea (Max)	0 %	Iron (Min)	5 000 mg/kg
Crude Fat (Min)	1 %	Manganese (Min)	3 000 mg/kg
Crude Fibre (Max)	0 %	Selenium (Min)	10 mg/kg
Salt (Max)	5 %	Zinc (Min)	3 800 mg/kg
Calcium (Min)	0.1 g/kg	Vitamin A (Min)	1 000 000 IU/kg
Magnesium (Min)	5 g/kg	Vitamin D (Min)	100 000 IU/kg
Phosphorous (Min)	0.1 g/kg	Vitamin E (Min)	2 000 mg/kg
Sulphur (Min)	5 g/kg	Vitamin K3 (Min)	100 mg/kg
Biotin (Min)	10 mg/kg	Vitamin B1 (Min)	200 mg/kg
D-Calcium Pantothenate (Min)	500 mg/kg	Vitamin B2 (Min)	400 mg/kg
Folic Acid (Min)	100 mg/kg	Vitamin B6 (Min)	200 mg/kg
Niacin (Min)	2 000 mg/kg	Vitamin B12 (Min)	1 mg/kg
Mj/kg	9.5 mj/kg		
Active Constituent	1 500 mg/kg Monensin		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

A premix designed for Dairy Cattle which:

- ✓ Helps to maintain herd health & fertility in dairy cattle
- ✓ Contains all the macro & micro elements required

Directions of Use: 150-200 grams per head per day for dairy cattle

TYPICAL ANALYSIS PER KG

Total Protein (Min)	0 %	Cobalt (Min)	50 mg/kg
Crude Protein (Min)	0 %	Copper (Min)	1 000 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	25 mg/kg
Urea (Max)	0 %	Iron (Min)	1 mg/kg
Crude Fat (Min)	0 %	Manganese (Min)	1 000 mg/kg
Crude Fibre (Max)	0 %	Selenium (Min)	25 mg/kg
Salt (Max)	10 %	Zinc (Min)	4 000 mg/kg
Calcium (Min)	240 g/kg	Vitamin A (Min)	250 000 IU/kg
Magnesium (Min)	57 g/kg	Vitamin D (Min)	20 000 IU/kg
Phosphorous (Min)	36 g/kg	Vitamin E (Min)	600 mg/kg
Sulphur (Min)	26 g/kg	Mj/kg	0.38 mj/kg
Active Constituent	NIL		

A premix designed for Dairy Cattle which:

- ✓ Helps to maintain herd health & fertility in dairy cattle
- ✓ Contains all the macro & micro elements required
- ✓ Contains Monensin to increase feed efficiency

Directions of Use: 150-200 grams per head per day for dairy cattle

TYPICAL ANALYSIS PER KG

Total Protein (Min)	0 %	Cobalt (Min)	50 mg/kg
Crude Protein (Min)	0 %	Copper (Min)	1 000 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	25 mg/kg
Urea (Max)	0 %	Iron (Min)	1 mg/kg
Crude Fat (Min)	0 %	Manganese (Min)	1 000 mg/kg
Crude Fibre (Max)	0 %	Selenium (Min)	25 mg/kg
Salt (Max)	10 %	Zinc (Min)	4000 mg/kg
Calcium (Min)	230 g/kg	Vitamin A (Min)	250 000 IU/kg
Magnesium (Min)	57 g/kg	Vitamin D (Min)	20 000 IU/kg
Phosphorous (Min)	36 g/kg	Vitamin E (Min)	600 mg/kg
Sulphur (Min)	26 g/kg	Mj/kg	0.38 mj/kg
Active Constituent	1 000 mg/kg Monensin		

Please note: Analysis & material are subject to availability of ingredients due to seasonal variations.



This product is suitable to be mixed with grain, hay and silage to form a complete and balanced ration for feeding cattle:

- ✓ Contains all the vitamins, minerals & some protein needed to balance feedlot rations
- ✓ Contains buffers such as sodium bicarb to help control conditions such as acidosis
- ✓ Contains Monensin for increased feed efficiency
- ✓ No extra buffers required

Directions of Use: Inclusion rate of 40kg into 1 tonne of finished feed

TYPICAL ANALYSIS PER KG

Total Protein (Min)	50 %	Cobalt (Min)	12 mg/kg
Crude Protein (Min)	10 %	Copper (Min)	242 mg/kg
Equivalent Crude Protein (Min)	40 %	Iodine (Min)	6 mg/kg
Urea (Max)	16 %	Iron (Min)	10 mg/kg
Crude Fat (Min)	1.85 %	Manganese (Min)	262 mg/kg
Crude Fibre (Max)	5 %	Selenium (Min)	6 mg/kg
Salt (Max)	7.5 %	Zinc (Min)	967 mg/kg
Calcium (Min)	100 g/kg	Vitamin A (Min)	62 000 IU/kg
Magnesium (Min)	8 g/kg	Vitamin D (Min)	4 800 IU/kg
Phosphorous (Min)	5 g/kg	Vitamin E (Min)	144 mg/kg
Sulphur (Min)	20 g/kg	Mj/kg	2 mj/kg
Active Constituent	500 mg/kg Monensin		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

This product is specifically designed for feedlot cattle:

- ✓ Contains all the macro & micro elements needed to maintain health in a feedlot situation
- ✓ Does not contain any extra protein, including urea
- ✓ Contains Monensin for increased feed efficiency

Directions of Use: Mix 20kg into 1 tonne of finished feed

TYPICAL ANALYSIS PER KG

Total Protein (Min)	0 %	Cobalt (Min)	30 mg/kg
Crude Protein (Min)	0 %	Copper (Min)	601 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	15 mg/kg
Urea (Max)	0 %	Iron (Min)	9 mg/kg
Crude Fat (Min)	0 %	Manganese (Min)	600 mg/kg
Crude Fibre (Max)	0 %	Selenium (Min)	15 mg/kg
Salt (Max)	15 %	Zinc (Min)	2 400 mg/kg
Calcium (Min)	200 g/kg	Vitamin A (Min)	156 000 IU/kg
Magnesium (Min)	42 g/kg	Vitamin D (Min)	12 000 IU/kg
Phosphorous (Min)	23 g/kg	Vitamin E (Min)	360 mg/kg
Sulphur (Min)	26 g/kg	Mj/kg	2 mj/kg
Active Constituent	1 000 mg/kg Monensin		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

A concentrate to be used for mixing with molasses to provide a balanced supplement for cattle to maintain bodyweight in a grazing situation:

- ✓ Contains Monensin for increased feed efficiency

Directions of Use: Mix 50 kilograms into 200 litres of Molasses

TYPICAL ANALYSIS PER KG

Total Protein (Min)	60 %	Cobalt (Min)	10 mg/kg
Crude Protein (Min)	9 %	Copper (Min)	202 mg/kg
Equivalent Crude Protein (Min)	51 %	Iodine (Min)	5 mg/kg
Urea (Max)	16 %	Iron (Min)	44 mg/kg
Crude Fat (Min)	3 %	Manganese (Min)	218 mg/kg
Crude Fibre (Max)	2 %	Selenium (Min)	5 mg/kg
Salt (Max)	7.5 %	Zinc (Min)	1014 mg/kg
Calcium (Min)	100 g/kg	Vitamin A (Min)	52 000 IU/kg
Magnesium (Min)	1 g/kg	Vitamin D (Min)	4 000 IU/kg
Phosphorous (Min)	10 g/kg	Vitamin E (Min)	120 mg/kg
Sulphur (Min)	5 g/kg	Mj/kg	4 mj/kg
Active Constituent	400 mg/kg Monensin		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.





AGRILIQ BASIC

A concentrated high protein supplement for use as a 'base' ingredient in feed mills, total mixed rations and home mixed grain rations for all ruminant species.

When added to proprietary dry mineral mixes which provide the required macro/micro minerals and specialist additives, the AGRiliq base ingredient provides the following benefits:

- ✓ Boosts in fibre digestion and microbial efficiency
- ✓ Provision of energy and protein cost effectively and safely
- ✓ At 5% inclusion increases average protein of grain mixes by more than 2%
- ✓ Highly palatable and results in increased intake
- ✓ Reduces dust and fines within mixes
- ✓ Easily blends with hay, silage and dry ingredients
- ✓ Flows in cold weather and easily pumped or sprayed

Directions of Use: Agriliq is a liquid supplement to be used in addition to a meal or fibre source and is intended for cattle, sheep and goats.

TYPICAL ANALYSIS PER KG

Dry Matter	67.6 %
Energy	14.25 MJ/kg
Protein	61.1 %
Non-Protein Nitrogen (NPN)	9.8 %
Urea	0.7 %

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

**WARNING:
DO NOT FEED
TO HORSES**



AGRILIQ CATTLE Paddock

A concentrated supplement composed of molasses, phosphoric acid, macro and trace minerals and vitamins.

Directions of Use: Use in accordance with the directions of your Nutritionist. PLEASE NOTE - This product is designed to be used with a meal or fibre source. We DO NOT recommend ad lib feeding to livestock without ample available feed and water nearby. Urea can be poisonous to unadapted stock.

TYPICAL ANALYSIS PER KG

Dry Matter	68.8 %
Energy	11.09 MJ/kg
Protein	35.3 %
Non-Protein Nitrogen (NPN)	5.6 %
Urea	6.0 %
Salt (NaCl)	9.52 %
Calcium	0.61 %
Phosphorus	0.07 %
Magnesium	0.37 %
Sulphur	0.29 %
Iron	86.47 mg/kg
Manganese	67.62 mg/kg
Copper	0.70 mg/kg
Cobalt	1.99 mg/kg
Zinc	11.08 mg/kg
Selenium	0.29 mg/kg
Monensin	138 mg/kg

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

**WARNING:
DO NOT FEED
TO HORSES**

This product is suitable to be mixed with grain, hay and silage to form a complete and balanced ration for feeding sheep:

- ✓ Contains all the vitamins, minerals & some protein needed to balance feedlot rations
- ✓ Contains buffers such as sodium bicarb to control conditions such as acidosis
- ✓ Contains Bovatec® for increased feed efficiency

Directions of Use: Inclusion rate of 75kg into 1 tonne of finished feed

TYPICAL ANALYSIS PER KG

Total Protein (Min)	45 %	Cobalt (Min)	10 mg/kg
Crude Protein (Min)	22 %	Copper (Min)	2.5 mg/kg
Equivalent Crude Protein (Min)	23 %	Iodine (Min)	5 mg/kg
Urea (Max)	8 %	Iron (Min)	50 mg/kg
Crude Fat (Min)	3 %	Manganese (Min)	331 mg/kg
Crude Fibre (Max)	5 %	Selenium (Min)	1 mg/kg
Salt (Max)	10 %	Zinc (Min)	409 mg/kg
Calcium (Min)	56 g/kg	Vitamin A (Min)	60 000 IU/kg
Magnesium (Min)	5 g/kg	Vitamin D (Min)	12 000 IU/kg
Phosphorous (Min)	7 g/kg	Vitamin E (Min)	60 mg/kg
Sulphur (Min)	20 g/kg	Mj/kg	3 mj/kg
Active Constituent	300 mg/kg Lasalocid		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.



Hylick Sheep is a loose lick especially formulated for supplementing sheep on dry feed and green feed (for 0% urea):

- ✓ Will greatly assist in maintaining body weight & correcting vitamin and mineral deficiency in sheep
- ✓ Contains bypass proteins & urea (in 2% & 4%) which encourages grazing & better utilisation of dry feed
- ✓ Contains Bovatec® to improve feed efficiency
- ✓ May assist in maximising weight gains
- ✓ Assists in improving fertility & lambing percentages

Directions of Use: Feed in a well drained trough which is protected from the weather

Average Consumption Rate: 50 – 75 grams / head / day

Please Note: Before starting on Hylick Sheep 4% Lick, sheep should spend time on Hylick Sheep 2%

TYPICAL ANALYSIS PER KG

Product	Sheep 0 %	Sheep 2%	Sheep 4%	Sheep 8%
Total Protein (Min)	10 %	17 %	23 %	37 %
Crude Protein (Min)	10 %	11 %	7 %	9 %
Equivalent Crude Protein (Min)	0 %	5.7 %	16 %	28 %
Urea (Max)	0 %	2 %	4 %	8 %
Crude Fat (Min)	4 %	5 %	5 %	3 %
Crude Fibre (Max)	4 %	4 %	4 %	4 %
Salt (Max)	25 %	25 %	25 %	25 %
Calcium (Min)	85 g/kg	88 g/kg	77 g/kg	70 g/kg
Magnesium (Min)	30 g/kg	20 g/kg	20 g/kg	10 g/kg
Phosphorous (Min)	10 g/kg	10 g/kg	10 g/kg	10 g/kg
Sulphur (Min)	10 g/kg	25 g/kg	25 g/kg	30 g/kg
Cobalt (Min)	5 mg/kg	5 mg/kg	5 mg/kg	5 mg/kg
Copper (Min)	4 mg/kg	4 mg/kg	4 mg/kg	4 mg/kg
Iodine (Min)	2.5 mg/kg	2.5 mg/kg	2.5 mg/kg	2.5 mg/kg
Iron (Min)	59 mg/kg	44 mg/kg	75 mg/kg	74 mg/kg
Manganese (Min)	180 mg/kg	180 mg/kg	180 mg/kg	180 mg/kg
Selenium (Min)	0.5 mg/kg	0.5 mg/kg	0.5 mg/kg	0.5 mg/kg
Zinc (Min)	200 mg/kg	200 mg/kg	200 mg/kg	200 mg/kg
Vitamin A (Min)	40 000 IU/kg	40 000 IU/kg	40 000 IU/kg	40 000 IU/kg
Vitamin D (Min)	8 000 IU/kg	8 000 IU/kg	8 000 IU/kg	8 000 IU/kg
Vitamin E (Min)	75 mg/kg	75 mg/kg	75 mg/kg	75 mg/kg
Mj/kg	5 mj/kg	5 mj/kg	5 mj/kg	5 mj/kg
Active Constituent (Lasalocid per kg)	150 mg	150 mg	150 mg	150 mg

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.



Hylick WP Sheep Minerals is a loose lick with a balanced level of macro and micro minerals to maximise performance of sheep on improved pastures.

- ✓ Aids in the prevention of grass tetany
- ✓ Contains a weatherproofing agent to repel moisture in a paddock ad lib feed situation

Directions of Use: Feed in a well drained trough that is protected from weather

Average Consumption Rate: 10-20 grams / head / day

TYPICAL ANALYSIS PER KG

Total Protein (Min)	0 %	Cobalt (Min)	40 mg/kg
Crude Protein (Min)	0 %	Copper (Min)	0 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	20 mg/kg
Urea (Max)	0 %	Iron (Min)	0.2 mg/kg
Crude Fat (Min)	0 %	Manganese (Min)	1 204 mg/kg
Crude Fibre (Max)	0 %	Selenium (Min)	4 mg/kg
Salt (Max)	25 %	Zinc (Min)	1 600 mg/kg
Calcium (Min)	100 g/kg	Vitamin A (Min)	321 000 IU/kg
Magnesium (Min)	150 g/kg	Vitamin D (Min)	64 000 IU/kg
Phosphorous (Min)	50 g/kg	Vitamin E (Min)	600 mg/kg
Sulphur (Min)	15 g/kg	Mj/kg	0 mj/kg
Active Constituent	NIL		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.





YARD WEANING MIX

Formulated for feeding calves in a yard weaning situation.

- ✓ Contains specialised nutrients to minimise stress in calves
- ✓ Contains Monensin to improve feed efficiency

Directions of Use: Feed at 1-1.5kg/head/day plus roughage.

Must be fed with adequate fibre such as grass, hay or silage.

WARNING: DO NOT FEED TO DOGS, POULTRY, HORSES OR OTHER EQUINES AS IT MAY PROVE FATAL

TYPICAL ANALYSIS PER KG

Total Protein (Min)	16 %	Cobalt (Min)	3.07 mg/kg
Crude Protein (Min)	16 %	Copper (Min)	23 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	1.1 mg/kg
Urea (Max)	0 %	Iron (Min)	49 mg/kg
Crude Fat (Min)	2.37 %	Manganese (Min)	39 mg/kg
Crude Fibre (Max)	4 %	Selenium (Min)	0.67 mg/kg
Salt (Max)	1.2 %	Zinc (Min)	152.01 mg/kg
Calcium (Min)	9.5 g/kg	Vitamin A (Min)	55 000 IU/kg
Magnesium (Min)	9 g/kg	Vitamin D (Min)	10 000 IU/kg
Phosphorous (Min)	3.9 g/kg	Vitamin E (Min)	56 mg/kg
Sulphur (Min)	3.2 g/kg		
Metabolisable Energy	10.37 mj/kg		
Active Constituent	40 mg/kg Monensin		

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.



STUD BULL MIX

PBA Stud Bull Mix is designed to grow and prepare bulls for show or sale.

- ✓ Contains full fat soybean meal as a protein source which contains a readily available profile of amino acids such as lysine and methionine for enhanced muscle development.
- ✓ Contains Monensin to improve feed efficiency

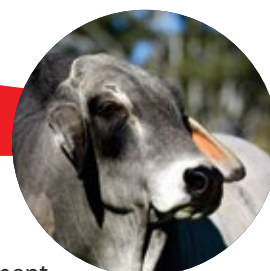
Directions of Use: Feed at 1.5-2% of bodyweight plus roughage. 6.0kg per head per day.

Must be fed with adequate fibre such as grass, hay or silage.

TYPICAL ANALYSIS PER KG

Total Protein (Min)	16 %	Cobalt (Min)	2 mg/kg
Crude Protein (Min)	11.84 %	Copper (Min)	18 mg/kg
Equivalent Crude Protein (Min)	4.16 %	Iodine (Min)	1 mg/kg
Urea (Max)	0.64 %	Iron (Min)	69 mg/kg
Crude Fat (Min)	3.03 %	Manganese (Min)	36 mg/kg
Crude Fibre (Max)	- %	Selenium (Min)	0.1 mg/kg
Salt (Max)	0.3 %	Zinc (Min)	78 mg/kg
Calcium (Min)	6 g/kg	Vitamin A (Min)	6 400 IU/kg
Magnesium (Min)	5 g/kg	Vitamin D (Min)	1 200 IU/kg
Phosphorous (Min)	3 g/kg	Vitamin E (Min)	16 mg/kg
Sulphur (Min)	2 g/kg	Potassium (Min)	5 g/kg
Sodium (Min)	7 g/kg	Chloride (Min)	3 g/kg
Metabolisable Energy	11.29 MJ/kg	Active Constituent	20 mg/kg Monensin

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.



PRO(N8)URE[®]

In Sync with Nature

Prebiotic Dual Strain Probiotic Multi-Strain Enzyme

**Improved digestion resulting
in better performance
& good health!**

Pro(N8)ure[®] IFS is a heat stable
“in feed solution” that combines
three essential elements:
a prebiotic, dual strain probiotic,
and multi-strain enzyme.



International
Animal Health Products

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1800 801 201



BEEF FEEDLOT PELLET

20 KG BAGS
BULK BAGS
OR BULK

This pellet is a high energy product suitable for the feedlotting of cattle in a yard feeding situation or used in a grain assist situation in the paddock.

- ✓ High energy pellet best suited for cattle over 250kg liveweight
- ✓ Contains Monensin to improve feed efficiency

PBA Ruminut 14% can be used as a starter ration for 7-10 days leading up to the introduction of this mix.

Directions of Use: Feed up to 2.5% of bodyweight with an adequate fibre source. Can be used in troughs or self-feeders. Must be fed with adequate hay, pasture or silage. Cool, clean, fresh water must be available at all times.

TYPICAL ANALYSIS PER KG

Total Protein (Min)	14 %	Cobalt (Min)	2.5 mg/kg
Crude Protein (Min)	14 %	Copper (Min)	22 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	1 mg/kg
Urea (Max)	0 %	Iron (Min)	61 mg/kg
Crude Fat (Min)	5.4 %	Manganese (Min)	34 mg/kg
Crude Fibre (Max)	6 %	Selenium (Min)	0.2 mg/kg
Salt (Max)	0.4 %	Zinc (Min)	92 mg/kg
Calcium (Min)	5 g/kg	Vitamin A (Min)	5 000 IU/kg
Magnesium (Min)	4 g/kg	Vitamin D (Min)	1 000 IU/kg
Phosphorous (Min)	3 g/kg	Vitamin E (Min)	6 mg/kg
Sulphur (Min)	2 g/kg		
Metabolisable Energy	13.8 mj/kg	Active Constituent Monensin	40 mg/k

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

THIS PRODUCT DOES NOT CONTAIN RESTRICTED ANIMAL MATERIAL



PROTEIN PELLET

20 KG BAGS
BULK BAGS
OR BULK

This product is high in protein, energy and fibre and can be fed to most animals as a supplement to standing dry feed or as an ingredient in feedlot or dairy rations.

- ✓ Available in two versions of 22% and 32% protein.
- ✓ A large portion of this pellet is extruded, thus achieving high levels of digestibility and feed efficiency.

Directions of Use: Trail feed on ground, in troughs or mixing wagons.

SHEEP: 100–300g /head/day depending on age and size. **CATTLE:** 1–3 kg /head/day.

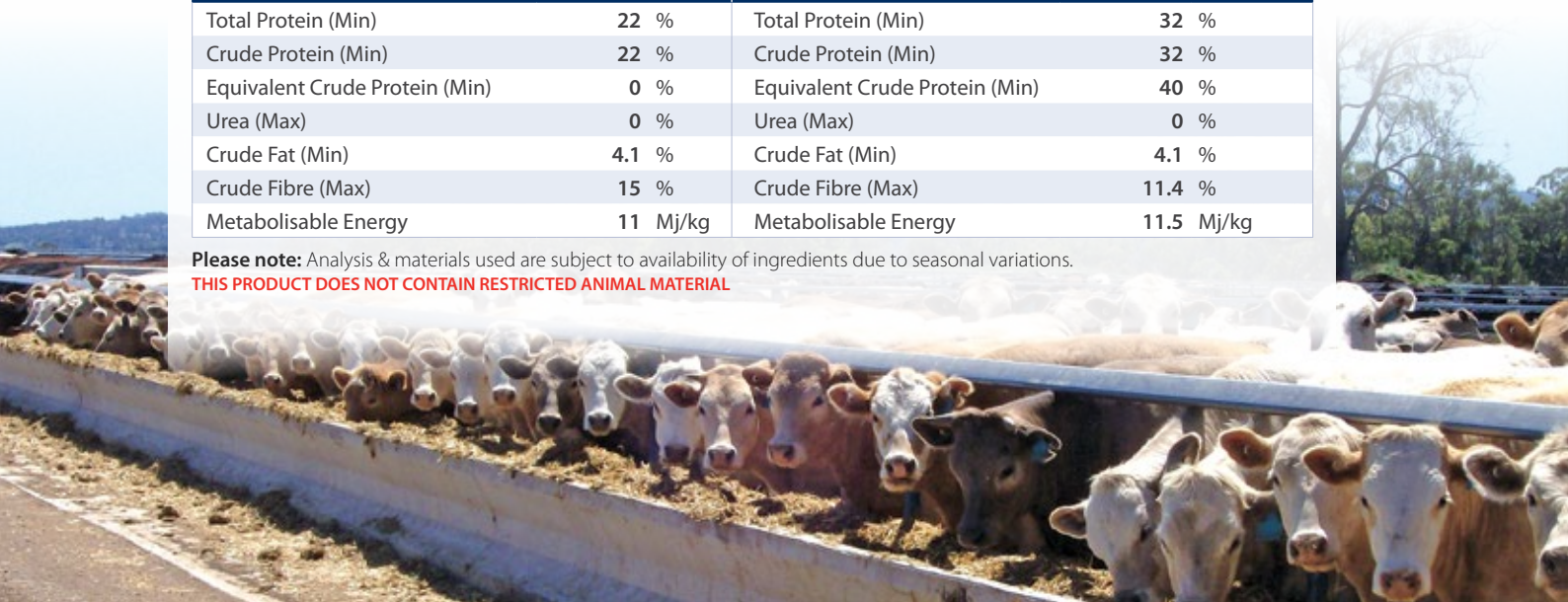
Must be fed with adequate hay, pasture or silage. Cool, clean, fresh water must be available at all times.

TYPICAL ANALYSIS PER KG

22% PROTEIN PELLET		32% PROTEIN PELLET	
Total Protein (Min)	22 %	Total Protein (Min)	32 %
Crude Protein (Min)	22 %	Crude Protein (Min)	32 %
Equivalent Crude Protein (Min)	0 %	Equivalent Crude Protein (Min)	40 %
Urea (Max)	0 %	Urea (Max)	0 %
Crude Fat (Min)	4.1 %	Crude Fat (Min)	4.1 %
Crude Fibre (Max)	15 %	Crude Fibre (Max)	11.4 %
Metabolisable Energy	11 Mj/kg	Metabolisable Energy	11.5 Mj/kg

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

THIS PRODUCT DOES NOT CONTAIN RESTRICTED ANIMAL MATERIAL



A 16% protein pellet primarily for calves 150kg to approximately 250kg liveweight, to be fed with paddock forage, hay or silage to assist with growth and maintenance.

- ✓ May also be used as a supplement to older cattle in dry feed situations

Directions of Use: Can be used in troughs or self-feeders. Feed up to 1–1.5% of bodyweight per day. Must be fed with adequate hay, pasture or silage. Cool, clean, fresh water must be available at all times.

TYPICAL ANALYSIS PER KG

Total Protein (Min)	16 %	Cobalt (Min)	2 mg/kg
Crude Protein (Min)	16 %	Copper (Min)	22 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	1 mg/kg
Urea (Max)	0 %	Iron (Min)	62 mg/kg
Crude Fat (Min)	3.2 %	Manganese (Min)	35 mg/kg
Crude Fibre (Max)	6.5 %	Selenium (Min)	0.12 mg/kg
Salt (Max)	0.4 %	Zinc (Min)	92 mg/kg
Calcium (Min)	5 g/kg	Vitamin A (Min)	5 000 IU/kg
Magnesium (Min)	5 g/kg	Vitamin D (Min)	1 000 IU/kg
Phosphorous (Min)	4 g/kg	Vitamin E (Min)	6 mg/kg
Sulphur (Min)	2 g/kg	Metabolisable Energy	12.3 mj/kg

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

THIS PRODUCT DOES NOT CONTAIN RESTRICTED ANIMAL MATERIAL

PBA Ruminut is used primarily as a supplement to sheep and cattle in times of poor quality pasture or in drought conditions.

- ✓ Ruminuts are produced in a 10mm pellet and are ideal for trail feeding on the ground, although troughs are preferred to reduce wastage
- ✓ It is recommended that feed be introduced gradually over 7 to 10 days to minimise acidosis

Directions of Use: Trail feed on ground or in troughs.

LAMBS: 100–200 grams /head/day

EWES WITH LAMBS AT FOOT: up to 500g /head/day

CATTLE-WEANERS\STEERS: 1–3kg /head/day

COWS WITH CALVES: 2–5kg /head/day

Must be fed with adequate hay, pasture or silage. Cool, clean, fresh water must be available at all times.

TYPICAL ANALYSIS PER KG

Total Protein (Min)	14 %	Cobalt (Min)	1 mg/kg
Crude Protein (Min)	16 %	Copper (Min)	13 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	0.58 mg/kg
Urea (Max)	0 %	Iron (Min)	39 mg/kg
Crude Fat (Min)	3.6 %	Manganese (Min)	22 mg/kg
Crude Fibre (Max)	13.5 %	Selenium (Min)	0.32 mg/kg
Salt (Max)	0.4 %	Zinc (Min)	65 mg/kg
Calcium (Min)	6 g/kg	Vitamin A (Min)	3 000 IU/kg
Magnesium (Min)	4 g/kg	Vitamin D (Min)	240 IU/kg
Phosphorous (Min)	2.4 g/kg	Vitamin E (Min)	7 mg/kg
Sulphur (Min)	1.5 g/kg	Metabolisable Energy	11.6 mj/kg

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

THIS PRODUCT DOES NOT CONTAIN RESTRICTED ANIMAL MATERIAL



Lamb feedlot pellets are formulated primarily to finish lambs in a yard feeding situation or with access to pasture.

This product is most suitable for lambs over 30kg liveweight and is best fed with an adequate fibre source such as pasture, hay and straw, and provides all the vitamins, macro and micro elements and buffers required by the lambs.

TYPICAL ANALYSIS PER KG

Directions of Use: Can be used in troughs or self-feeders.

Start lambs off at 100g on Day 1, increasing in increments to 1–1.2kg on Day 14.

Introduce lambs gradually over a 2 week period so they adapt to the ration slowly to prevent gorging and acidosis.

Must be fed with adequate hay, pasture or straw. Cool, clean, fresh water must be available at all times.

TYPICAL ANALYSIS PER KG

Total Protein (Min)	16 %	Cobalt (Min)	2 mg/kg
Crude Protein (Min)	16 %	Copper (Min)	2 mg/kg
Equivalent Crude Protein (Min)	0 %	Iodine (Min)	1 mg/kg
Urea (Max)	0 %	Iron (Min)	62 mg/kg
Crude Fat (Min)	1.7 %	Manganese (Min)	73 mg/kg
Crude Fibre (Max)	7 %	Selenium (Min)	0.12 mg/kg
Salt (Max)	0.4 %	Zinc (Min)	69 mg/kg
Calcium (Min)	18 g/kg	Vitamin A (Min)	6 000 IU/kg
Magnesium (Min)	3 g/kg	Vitamin D (Min)	1 200 IU/kg
Phosphorous (Min)	3 g/kg	Vitamin E (Min)	6 mg/kg
Sulphur (Min)	3 g/kg	Metabolisable Energy	13 mj/kg

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.

THIS PRODUCT DOES NOT CONTAIN RESTRICTED ANIMAL MATERIAL



Hen House Gold Layer Mash is a premium feed that produces a more nutritious egg and which includes the nutrients that improve the condition of feather, feet and foot pads. In addition to being 100% vegetarian and hormone free, Hen House Gold contains a natural probiotic to support the gut health of your hens.

With the specially formulated chicken premix found in Hen House Gold Layer Mash, your eggs will be a good source of selenium, Vitamins A, E and D. Along with the high quality protein found in Hen House Gold, the diet is balanced for a healthier Omega 3 to Omega 6 ratio to optimise your hen's health, vitality and egg production.

Through new advanced technologies, Hen House Gold has reduced trace element output while maximising the transfer of nutrients to the egg and eggshell. It also reduces phosphorus loss in the manure as well as reduced ammonia output.

- ✓ Supports vitality
- ✓ Supports better eggshells
- ✓ Supports better health
- ✓ Supports egg-nutrients

TYPICAL ANALYSIS PER KG

Total Protein (Min)	15.3 %
Crude Fat (Min)	6.3 %
Starch (Min)	37.8 %
Fat (Min)	6.9 %
Crude Fibre (Min)	3.1 %
Manganese (Min)	87.9 %
Phosphorous (Min)	5 800 mg/kg
Calcium (Min)	46 000 mg/kg
Available Lysine (Min)	51.4 g/100g

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.



**100%
VEGETARIAN**
+ ANTIBIOTIC
& HORMONE
FREE!



Hen House Gold Duck & Geese Pellet is a nutritious pellet especially formulated for breeding geese and ducks to increase fertility and egg hatchability. It contains high quality protein, a natural probiotic and is antibiotic and hormone free.

In addition to being 100% vegetarian and hormone free, Hen House Gold Duck & Geese Pellet contains a natural probiotic to support the gut health of your birds.

Along with the high quality protein found in Hen House Gold Duck & Geese Pellet, the formulation is balanced for a healthier Omega 3 to Omega 6 ratio to optimise your birds' health, vitality and egg production.

Contains highly nutritious ingredients including wheat, soy bean meal, maize, lime, canola meal, millrun, vegetable oil along with added vitamins and minerals.

WARNING: DO NOT FEED TO OTHER ANIMAL SPECIES

- ✓ Supports fertility
- ✓ Supports egg hatchability
- ✓ Supports vitality

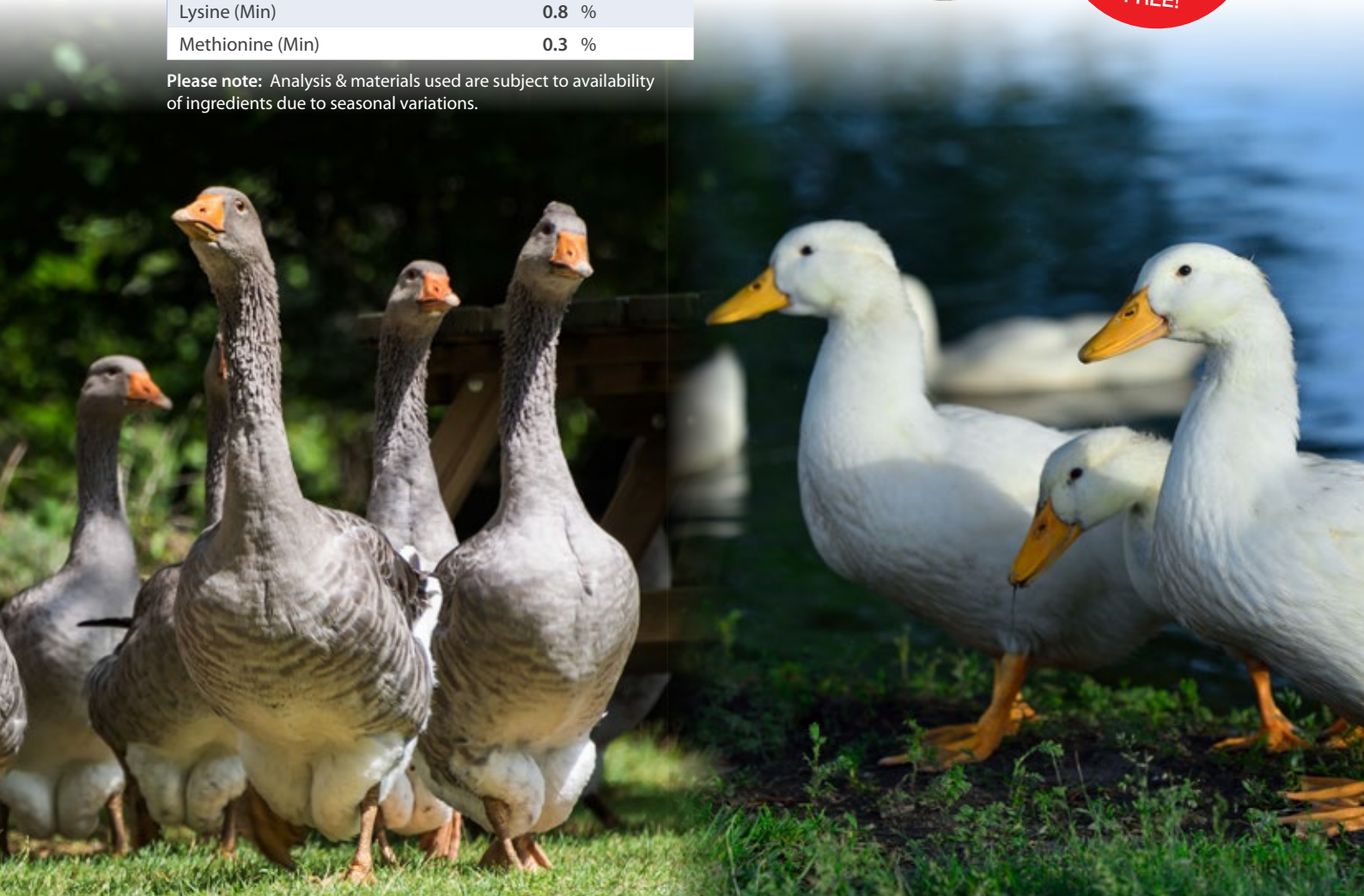
TYPICAL ANALYSIS PER KG

Total Protein (Min)	18.3 %
Crude Fat (Min)	6.4 %
Crude Fibre (Min)	3.5 %
Salt (Min)	0.3 %
Phosphorous (Min)	0.4 %
Calcium (Min)	2.9 %
Lysine (Min)	0.8 %
Methionine (Min)	0.3 %

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.



**100%
VEGETARIAN**
+ ANTIBIOTIC
& HORMONE
FREE!



Hen House Gold Breeder Pellet is a premium feed designed specifically for breeding hens to support fertility and egg hatchability.

In addition to being 100% vegetarian and hormone free, Hen House Gold Breeder Pellet contains a natural probiotic to support the gut health of your hens.

Along with the high quality protein found in Hen House Gold Breeder Pellet the formulation is balanced for a healthier Omega 3 to Omega 6 ratio to optimise your hens' health, vitality and egg production.

Contains highly nutritious ingredients, including wheat, soy bean meal, maize, lime, canola meal, millrun and vegetable oil, along with added vitamins and minerals.

WARNING: DO NOT FEED TO OTHER ANIMAL SPECIES

- ✓ Supports fertility
- ✓ Supports egg hatchability
- ✓ Supports vitality

TYPICAL ANALYSIS PER KG

Total Protein (Min)	19.2 %
Crude Fat (Min)	5.3 %
Crude Fibre (Min)	3.1 %
Salt (Min)	0.3 %
Phosphorous (Min)	0.5 %
Calcium (Min)	4.1 %
Lysine (Min)	0.9 %
Methionine (Min)	0.4 %

Please note: Analysis & materials used are subject to availability of ingredients due to seasonal variations.



**100%
VEGETARIAN**
+ ANTIBIOTIC
& HORMONE
FREE!



Nutritional Secondary Hyperparathyroidism is commonly known as 'Big Head' or 'Bran Disease' and it occurs when there is a calcium imbalance within the horse's diet. Big Head condition can occur in horses when they are:

1. Grazing tropical and sub-tropical grasses that contain high concentrations of oxalates
2. Fed high phosphorous containing diets such as high grain, pollard or bran

Restoring the correct balance of calcium and phosphorous within the horse's blood stream is imperative in the treatment and prevention of Big Head. A calcium supplement with added Vitamin D to promote calcium absorption, such as Hyfeed Big Head Pellets or Big Head Lick should be used to rectify the calcium:phosphorous ratio (2:1 - 3:1) and overcome calcium deficiencies.

Suitable for:

All equines grazing on affected pastures or receiving pollard or bran-based diets, broodmares and young horses.

Benefits for your equine athlete:

- ✓ Balanced calcium to phosphorous ratio
- ✓ Added Vitamin D to promote calcium absorption in the gut
- ✓ Superior supplement for developing bones
- ✓ Easy-to-feed pellet — no mixing required

Hyfeed Big Head Pellets is a blend of the following quality ingredients:

Barley, Soya Hulls, Copra Meal, Di-Calcium Phosphate, Limestone, Extruded Soybean Meal, Acid Buff, Bentonite, Magnesium Oxide, Salt, Water, Vitamin & Mineral Premix, Hy D Premix, Mould Inhibitor.

BIG HEAD PELLETS

Directions of Use: Mix 500g - 1kg per head per day

Total Protein (Min)	13 %
Crude Fat (Min)	3.5 %
Salt (Max)	1.5 %
Digestible Energy	9.4 Mj/kg
Crude Fibre (Min)	6 %
Calcium (Min)	42 g/kg
Phosphorus (Min)	12 g/kg
Magnesium (Min)	12 g/kg
Sodium (Min)	5.2 g/kg
Potassium	4.1 g/kg
Chloride (Min)	8.3 g/kg
Sulphur (Min)	2.14 g/kg
Iodine (Min)	3.4 mg/kg
Iron (Min)	156 mg/kg
Manganese (Min)	84 mg/kg
Cobalt (Min)	2.5 mg/kg
Copper (Min)	22 mg/kg
Zinc (Min)	79 mg/kg
Selenium (Min)	0.21 mg/kg
Vitamin A (Min)	19 500 IU/kg
Vitamin D (Min)	1 950 IU/kg
Vitamin E (Min)	43 IU/kg
Vitamin K3 (Min)	1.95 mg/kg
Vitamin B1 (Min)	3.9 mg/kg
Vitamin B2 (Min)	7.8 mg/kg
Vitamin B6 (Min)	3.9 mg/kg
Vitamin B12 (Min)	0.02 mg/kg
Niacin (Min)	39 mg/kg
Biotin (Min)	0.2 mg/kg
D-Calcium Pantothenate (Min)	9.75 mg/kg
Folic Acid (Min)	1.95 mg/kg

BIG HEAD LICK

Directions of Use: 200g per head per day

Total Protein (Min)	6.5 %
Crude Fat (Min)	2.86 %
Salt (Max)	21 %
Digestible Energy	5.93 Mj/kg
Crude Fibre (Min)	4 %
Calcium (Min)	155 g/kg
Phosphorus (Min)	55.2 g/kg
Magnesium (Min)	5 g/kg
Sodium (Min)	69 g/kg
Potassium	1.4 g/kg
Chloride (Min)	106.4 g/kg
Sulphur (Min)	5.8 g/kg
Iodine (Min)	3.1 mg/kg
Iron (Min)	198 mg/kg
Manganese (Min)	121 mg/kg
Cobalt (Min)	3.2 mg/kg
Copper (Min)	33 mg/kg
Zinc (Min)	100 mg/kg
Selenium (Min)	0.31 mg/kg
Vitamin A (Min)	30 000 IU/kg
Vitamin D (Min)	3 000 IU/kg
Vitamin E (Min)	60 IU/kg
Vitamin K3 (Min)	3 mg/kg
Vitamin B1 (Min)	6 mg/kg
Vitamin B2 (Min)	12 mg/kg
Vitamin B6 (Min)	6 mg/kg
Vitamin B12 (Min)	0.03 mg/kg
Niacin (Min)	60 mg/kg
Biotin (Min)	0.3 mg/kg
D-Calcium Pantothenate (Min)	15 mg/kg
Folic Acid (Min)	3 mg/kg

Please note: Base raw ingredients may gradually change due to season variations

WP Horse Minerals is a loose lick supplement with a balanced level of essential minerals, vitamins and trace elements specifically formulated for horses. The daily addition of WP Horse Minerals will contribute to the healthy growth, development and performance of equines.

Contains a weather-proofing agent to repel moisture in a paddock ad lib feed situation.

Suitable for:

Equines of all ages, ensuring that regardless of age or workload, equines everywhere can receive the best.

Benefits for your equine athlete:

- ✓ Concentrated vitamin and mineral supplement
- ✓ General health and vitality
- ✓ Efficient utilisation of feeds
- ✓ Balances pastures and other feedstuffs

Hyfeed WP Horse Minerals is a blend of the following quality ingredients:

Salt, Di-Calcium Phosphate, Lime, Magnesium Oxide, Molasses, Vitamin & Mineral Premix, Calcium Sterate, Sulphur, Vegetable Oil.

Directions of Use: Ponies: 50g per day, Horses: 100g per day

TYPICAL ANALYSIS PER KG

Total Protein (Min)	0.76 %	Copper (Min)	400 mg/kg
Crude Fat (Min)	1.2 %	Zinc (Min)	1 200 mg/kg
Salt (Max)	30 %	Selenium (Min)	4 mg/kg
Digestible Energy	3.2 Mj/kg	Vitamin A (Min)	400 000 IU/kg
Crude Fibre (Min)	0 %	Vitamin D (Min)	40 000 IU/kg
Calcium (Min)	130 g/kg	Vitamin E (Min)	800 IU/kg
Phosphorus (Min)	50 g/kg	Vitamin K3 (Min)	40 mg/kg
Magnesium (Min)	28 g/kg	Vitamin B1 (Min)	80 mg/kg
Sodium (Min)	117 g/kg	Vitamin B2 (Min)	160 mg/kg
Potassium	0.6 g/kg	Vitamin B6 (Min)	80 mg/kg
Chloride (Min)	183 g/kg	Vitamin B12 (Min)	0.4 mg/kg
Sulphur (Min)	20 g/kg	Niacin (Min)	800 mg/kg
Iodine (Min)	40 mg/kg	Biotin (Min)	4 mg/kg
Iron (Min)	2 000 mg/kg	D-Calcium Pantothenate (Min)	200 mg/kg
Manganese (Min)	1 200 mg/kg	Folic Acid (Min)	40 mg/kg
Cobalt (Min)	40 mg/kg		

Please note: Analysis & materials used are subject to Availability of ingredients due to seasonal variations.





courtesy of Talgai Santas

courtesy of Bizzy Brahman



Quality Products for

FEEDLOT - DAIRY - SHEEP - BEEF - POULTRY

Loose Lick Paddock Supplements

Pellets & Complete Feeds

Concentrates for on farm mixing

Protein Meal — Bulk & Bagged

Custom Mix to Individual Requirements

On-Farm Nutritional Advice

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