

NUTRI FEEDS

The Formula for Success

Product Manual
Ruminants



NUTRI FEEDS

The Formula for Success

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Warnings:

NPN Warning (where indicated):

This animal feed contains an NPN source. Mix and feed strictly according to instructions.

NPN Warning:

1. During the first week additional roughage should be provided to allow the animals to adapt.
2. This feed must be supplied *ad lib*. Keep the feed troughs full at all times.
3. Protect this animal feed against rain. NPN is soluble and animals drinking a solution like this can be poisoned.
4. Do not feed this animal feed injudiciously together with other feed containing NPN. Consult an animal scientist.
5. Vinegar is an effective antidote for NPN poisoning. Mix with an equal quantity of water and dose half a bottle per calf or large sheep, and 2 to 4 bottles per animal for cattle (1 bottle = 750 ml).

Medication Warning:

Applicable only to products in RSA:

This animal feed contains registered drugs. Feed strictly according to instructions for use provided. See additional bag labels for further important details.

Namibia and Botswana:

Export products with NFF registration numbers contain no drugs.

GMO Statement:

This animal feed may contain genetically modified raw materials (GMO).

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Nutri products for Dairy: Calf and Heifer

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Nutri products for Dairy: Calf and Heifer

When using the formulated products for Nutri Milk Calf and Heifer, the producer is assured of:

- Quick and effective switching of calves from a milk to a dry-feed diet to reduce the weaning time.
- Quicker, healthier development to a mature ruminant – calves are therefore raised at a lower cost.
- Maximum growth and optimum udder development (without fat infiltration), which allows calves to achieve their full genetic milk-production potential as ruminants.
- The shortest possible unproductive time – heifers reach breed weight earlier and therefore calve at the desired age.
- Nutri Milk Calf/Heifer products contain unique feed supplements that promote growth and development as well as the optimum utilisation of feed by calves.
- The products are palatable, which promotes a quick, effective switch from milk to dry feed.

Notes

4205 Complete Calf Starter 18 (V 17565; NFF 1071)

Class: Complete calf feed.

Nutri Complete Calf Starter Pellets 18 is a well-balanced feed for calves from 0 to 3 months old, aimed at optimum growth and rumen development. This programme forms the basis of the successful lifelong production of the dairy cow.

Composition	g/kg
Protein (min)	180
Fat (min/max)	25/70
Fibre (min/max)	100/150
Moisture (max)	120
Calcium (max)	8
Phosphorus (min)	3.5

50 kg packaging.

Instructions: The following early-weaning feed programme can be followed from birth to approximately 3 months old.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

Notes

Feeding programme for dairy calves

Period	Feed	Feeding instructions
First 3 days	Colostrum	Colostrum should be ingested as soon as possible after birth (nursing or feeding by hand). Antibody absorption declines within 2 to 4 hours after birth and stops completely after 24 hours. Colostrum produced after the third milking should not be given to calves receiving colostrum for the first time. This colostrum contains very low levels of antibodies.
Day 4 to 28	Milk surrogate	1 litre per 10 kg of body mass. Maximum of 6 litres per day.
	Nutri Milk Complete Calf Starter	Free access, but always fresh (give small quantities regularly, remove old, wet feed daily and keep feed trough clean).
	Clean water	Free access. Replace daily. Remove during milk feeding and keep away from calves for 2 to 3 hours afterwards.
	Good quality hay	No additional hay should be provided before 1 to 1.2 kg of Nutri Milk Complete Calf Starter pellets per day are consumed. As soon as the consumption is 1 to 1.2 kg per day, hay should be freely available.
Weaning* to 3 months old	Nutri Milk Complete Calf Starter	Free access.
	Good-quality hay	Free access as soon as 1 to 1.2 kg of Nutri Milk Complete Calf Starter pellets per day are consumed.
	Clean water	Free access.

* Weaning: as soon as the calf consumes more than 500 g **Nutri Milk Complete Calf Starter** pellets per day and is at least 4 weeks old, the quantity of milk replacement the calf receives can be halved.
 This can be stopped after a week.

4202 Calf Growth 16 (V 17564)

Class: Calf growth feed.

Nutri Calf Growth pellets are the second phase in continuing the calf starter programme, and the same protein and raw-material quality applies.

Composition	g/kg
Protein (min)	160
Fat (min/max)	25/80
Fibre (max)	90
Moisture (max)	120
Calcium (max)	16
Phosphorus (min)	6

50 kg packaging.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Instructions: Feed to calves *ad lib.* from approximately 3 months old to the age of 6 months. Good-quality roughage and/or grazing must be additionally available *ad lib.* A TMR of 20% good-quality roughage and 80% calf growth pellets is also adequate.

Notes

4206 Heifer 18 (V 17566)

Class: Calf growth feed.

Nutri Heifer pellets are the third phase of the calf growth programme. It is provided to calves from the age of 6 months to before calving, together with the TMR and/or good-quality roughage/grazing.

Composition	g/kg
Protein (min)	180
Total protein from NPN	14.35%
Urea (max)	9
Fat (min/max)	25/80
Fibre (max)	90
Moisture (max)	120
Calcium (max)	16
Phosphorus (min)	6

50 kg packaging.

See NPN Warning on page 10.

Instructions: Feed from 6 months old to a month before calving. Feed approximately 2 to 4 kg per heifer per day, depending on age and roughage (quality and quantity).

NPN Warning:

This animal feed contains an NPN source. Mix and feed strictly according to instructions.

Refer to page 4 for the complete NPN Warning.

Notes

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Nutri products for Dairy

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Nutri products for Dairy

The Nutri Milk product range offers each client a variety of options for the economic and profitable production of milk.

- Nutri Milk products maintain a healthy rumen environment and ensure an optimum balance between milk production, milk composition, fertility and the health of cows.

Nutri Milk products

- Product lines were developed to address differences in the milk production of herds - potential, feed management and available sources of roughage.
- Dairy technology is used that includes a nutrient analysis system to determine the exact nutritional value of feed sources, and thus to develop fully balanced feeds for herds.
- Accurate feeding recommendations are made by way of modern feed technology and laboratory analyses of farm-produced roughage and other feed sources.

Three Nutri Milk product lines are available: Classic, Opti and Ultra.

- Each line contains products that differ with respect to crude protein percentage, with a choice of protein content of between 15% and 23%.
- Distinction between product lines is made mainly on the basis of the energy content and the protein quality.
- Differences in protein quality are determined during formulation and take the following fractions into account:
 - Soluble protein
 - Rumen degradable protein
 - Rumen bypass protein
 - Absorption of the bypass protein in the small intestine
 - Absorbable amino acids (specifically lysine and methionine in their optimum ratio)
- The correct composition of energy and protein sources in the products ensures maximum production of rumen microbial protein, combined with available sources of roughage.
- The use of new buffer technology as well as natural feed additives ensures an optimum balance between milk production, milk composition, fertility and the health of cows.

Nutri Classic range:

The **Nutri Classic range** offers producers economical products for the cow herds with a moderate genetic potential and an expected milk production potential of 18 litres/day and higher.

5152 Classic M (V 15735) **9152 Classic M (NFF 1298)**

Class: Concentrated dairy feed.

Composition	g/kg
Protein (min)	170
Urea (max)	15
Total protein from NPN	25.32%
Moisture (max)	120
Fibre (max)	120
Calcium (max)	15
Fat (min/max)	25/85
Phosphorus (min)	5

See NPN Warning on page 27.

50 kg packaging.

Instructions: Feed at 2 kg per 5 litres of milk produced to cows on good-quality grazing or on a TMR with farm-produced sources of roughage.

5153 Classic H (V 15734) **9153 Classic H (NFF 1297)**

Class: Concentrated dairy feed.

Composition	g/kg
Protein (min)	200
Urea (max)	15
Total protein from NPN	21.52%
Moisture (max)	120
Fibre (max)	120
Calcium (max)	15
Fat (min/max)	25/85
Phosphorus (min)	5

See NPN Warning on page 27.

50 kg packaging.

Instructions: Feed at 2 kg per 5 litres of milk produced to cows on good-quality grazing or on a TMR with farm-produced sources of roughage.

Nutri Opti range:

The **Nutri Opti range** offers producers quality products for the cow herds with a high genetic potential and an expected milk production potential of 25 litres/day and higher. The range utilises modern additive technology optimally for rumen health, milk production and longevity of cows.

5182 Opti 17 (V 17463)

Class: Concentrated dairy feed.

Composition	g/kg
Protein (min)	170
Urea (max)	10
Total protein from NPN	16.88%
Moisture (max)	120
Fibre (max)	120
Calcium (min/max)	8/15
Fat (min/max)	25/100
Phosphorus (min)	5

See NPN Warning on page 27.

50 kg packaging.

Instructions: Feed at 2 kg per 5 litres of milk produced to cows on good-quality grazing or on a TMR with farm-produced sources of roughage.

5183 Opti 19 (V 17464)

Class: Concentrated dairy feed.

Composition	g/kg
Protein (min)	190
Urea (max)	10
Total protein from NPN	15%
Moisture (max)	120
Fibre (max)	120
Calcium (min/max)	25/100
Fat (min/max)	8/15
Phosphorus (min)	5

See NPN Warning on page 27.

50 kg packaging.

Instructions: Feed at 2 kg per 5 litres of milk produced to cows on good-quality grazing or on a TMR with farm-produced sources of roughage.

5184 Opti 21 (V 17465)

Class: Concentrated dairy feed.

Composition	g/kg
Protein (min)	210
Urea (max)	10
Total protein from NPN	13.67%
Moisture (max)	120
Fibre (max)	120
Calcium (min/max)	8/15
Fat (min/max)	25/100
Phosphorus (min)	5

See NPN Warning on page 27.

50 kg packaging.

Instructions: Feed at 2 kg per 5 litres of milk produced to cows on good-quality grazing or on a TMR with farm-produced sources of roughage.

Notes

Nutri Ultra range:

The **Nutri Ultra** range offers the producer options to develop the full milk-production potential of the cow herd with the collaboration of the nutritionist. This product range is recommended for high-production herds and contains high levels of quality protein, energy sources, trace minerals and natural feed additives.

5176 Ultra 19 (V 17045)

Class: Concentrated dairy feed.

Composition	g/kg
Protein (min)	190
Urea (max)	10
Total protein from NPN	15%
Moisture (max)	120
Fibre (max)	120
Calcium (min/max)	8/15
Fat (min/max)	25/100
Phosphorus (min)	5

See NPN Warning on page 27.

50 kg packaging.

Instructions: Feed at 2 kg per 5 litres of milk produced to cows on good-quality grazing or on a TMR with farm-produced sources of roughage.

Notes

5177 Ultra 21 (V 17046)

Class: Concentrated dairy feed.

Composition	g/kg
Protein (min)	210
Urea (max)	10
Total protein from NPN	13.67%
Moisture (max)	120
Fibre (max)	120
Calcium (min/max)	8/15
Fat (min/max)	25/100
Phosphorus (min)	5

See NPN Warning on page 27.

50 kg packaging.

Instructions: Feed at 2 kg per 5 litres of milk produced to cows on good-quality grazing or on a TMR with farm-produced sources of roughage.

Notes

5110 Nutri-Tech 2000 (V 13341)

Class: Energy supplement.

Nutri-Tech 2000 is a urea-free high-energy product for strategic inclusion with the dry-cow and early-lactation rations.

- It helps to prevent ketosis and limit the risk of acidosis.
- It limits the effect of heat stress on the milk production of the cow.
- It supports peak milk production.
- It improves the reproduction rate of the herd.

Composition	g/kg
TDN (min)	900
Protein (min)	150
Moisture (max)	120
Fibre (max)	60
Calcium (min)	4
Fat (min)	120
Phosphorus (min)	2

50 kg packaging.

Instructions: **Nutri-Tech 2000** is recommended for dairy cows from two weeks before calving and subsequently for the first 8 to 10 weeks of lactation at 1.5 to 2 kg per cow per day.

Notes

Dry-cow Nutritional Management

- **Feed Nutri Dry Cow 18** at 2.5 to 3.0 kg per day, in combination with sufficient roughage for the cow's dry period in order to manage condition.
- However, when the cow enters the late pregnancy period (21 days before calving), change to **Nutri Dry Cow 18 Plus**, which, in addition to 18% protein and energy (11 MJ ME/kg), also contains sufficient anionic salts to produce a **negative DCAB**.
- Feed the **Dry Cow 18 Plus** meal at 2.5 to 3.5 kg per day in combination with roughage or grazing to adapt the rumen to the lactation concentrate and limit the incidence of lacteal fever.
- As soon as the cow has calved, remove the anionic salts and follow the feed management programme for lactation.

5112 Dry Cow 18 (V 17561)

Class: Concentrated dry-cow feed.

Composition	g/kg
Protein (min)	180
Urea (max)	10
Total protein from NPN	15.90%
Moisture (max)	120
Fibre (max)	120
Calcium (min/max)	2.5/30
Fat (min/max)	25/75
Phosphorus (min)	6

See NPN Warning on page 27.

50 kg packaging.

Instructions: Feed 2.5 to 3.0 kg per cow per day to cows on good-quality grazing or on a TMR with farm-produced sources of roughage.

Notes

5113 Dry Cow 18 Plus (V 17562)

Class: Concentrated dry-cow feed.

Composition	g/kg
Protein (min)	180
Total protein from NPN	8%
Moisture (max)	120
Fibre (max)	120
Calcium (min/max)	30/40
Fat (min/max)	25/75
Phosphorus (min)	8.5

50 kg packaging.

See NPN Warning on page 27.

Instructions: Feed 2.5 to 3.5 kg per cow per day to cows on good-quality grazing or on a TMR with farm-produced sources of roughage for a period of three weeks before calving.

Instructions:

1. Adaptation: When switching from an NPN-free animal feed to one that contains NPN, it is advisable to feed a 50/50 mixture of the two types of feed for a period of four to six days.
2. Protect this animal feed against rain, NPN is soluble and animals drinking a solution like this can be poisoned.
3. Do not feed this animal feed injudiciously in combination with other feeds that contain NPN. Consult a nutritionist.
4. Vinegar is an effective antidote for NPN poisoning. Mix with an equal quantity of water and dose half a bottle per calf or large sheep, and 2 to 4 bottles per animal for cattle (1 bottle = 750 ml).

Notes

Nutri Milk Dairy Concentrates

Nutri Concentrates are formulated to allow them to be mixed with good-quality raw materials on the farm to obtain quality dairy rations.

The range of concentrates can replace dairy meals where clients have their own farm-produced grains.

5801 Classic Balancer (V 17049)

Class: Concentrated dry-cow feed.

Composition	g/kg
Protein (min)	330
Urea (max)	25
Total protein from NPN	21.74%
Moisture (max)	120
Fibre (max)	120
Fat (min/max)	15/55
Calcium (min/max)	24/28
Phosphorus (min)	10

50 kg packaging.

See NPN Warning on page 10.

Mixing instructions for dairy meal

Protein	%	15	17	19	20	21
5801 Nutri Milk Classic Balancer	kg	250	250	250	250	250
Maize meal (protein >75g/kg) or 6205 Nutri Grainmix	kg	600	425	300	260	223
Total	kg	850	675	550	510	473

Composition

Protein (min)	g/kg	150	170	190	200	210
Urea (max)	g/kg	7.35	9.33	11.28	12.25	13.23
Total protein from NPN	%	14.06	15.75	17.04	17.58	18.08
Moisture (max)	g/kg	120	120	120	120	120
Fat (min/max)	g/kg	25/100	25/100	25/100	25/100	25/100

Fat (max)	g/kg	100	100	100	100	100
Fibre (max)	g/kg	120	120	120	120	120
Calcium (min/max)	g/kg	8/15	8/15	8/15	8/15	8/15
Phosphorus (min)	g/kg	5	5	5	5	5

Instructions:

Dairy meal must be fed twice or more often per day. Feed in combination with roughage. TMR with farm-produced sources of roughage or grazing. The actual quantity to be fed will depend on:

1. Quality of the roughage;
2. Milk production;
3. Stage of lactation;
4. Milk solids.

5806 Ultra Balancer (V 19085)

Class: Concentrated dry-cow feed.

Composition	g/kg
Protein (min)	330
Urea (max)	20
Total protein from NPN	17.39%
Moisture (max)	120
Fibre (max)	120
Calcium (min/max)	24/28
Fat (min/max)	15/55
Phosphorus (min)	10

50 kg packaging.

See NPN Warning on page 27.

Mixing instructions for dairy meal

Protein	%	15	17	19	20	21
5806 Ultra Balancer	kg	250	250	250	250	250
Maize meal (protein >75 g/kg) or 6205 Nutri Grainmix	kg	600	420	300	260	225
Total	kg	850	670	550	510	475

Composition

Protein (min)	g/kg	150	170	190	200	210
Urea (max)	g/kg	5.88	7.46	9.03	9.8	10.57
Total protein from NPN	%	11.25	12.59	13.64	14.07	14.45
Moisture (max)	g/kg	120	120	120	120	120
Fat (min / max)	g/kg	25/100	25/100	25/100	25/100	25/100
Fibre (max)	g/kg	120	120	120	120	120
Calcium (min/max)	g/kg	8/15	8/15	8/15	8/15	8/15
Phosphorus (min)	g/kg	5	5	5	5	5

Instructions:

Dairy meal must be fed twice or more often per day. Feed in combination with roughage. TMR with farm-produced sources of roughage or grazing. The actual quantity to be fed will depend on:

1. Quality of the roughage;
2. Milk production;
3. Stage of lactation;
4. Milk solids.

Notes

5805 Bypro 40 (V 17051; NFF 1932)
Class: Protein concentrate for dairy feed.

Composition	g/kg
Protein (min)	400
Urea (max)	45
Total protein from NPN	32.29%
Moisture (max)	120
Fibre (max)	120
Calcium (min/max)	15/40
Fat (min/max)	38/40
Phosphorus (min)	15

50 kg packaging.

See NPN Warning on page 27.

Mixing instructions for dairy meal

Protein	%	15	17	19	20	21
5801 Nutri Milk Classic Balancer	kg	200	200	200	200	200
Maize meal (protein >75g/kg) or 6205 Nutri Grainmix	kg	650	475	375	325	275
Total	kg	850	675	575	525	475

Composition

	g/kg	150	170	190	200	210
Protein (min)	g/kg	150	170	190	200	210
Urea (max)	g/kg	10.4	13.1	15.9	17.3	18.7
Total protein from NPN	%	19.9	22.1	24.0	24.8	25.6
Moisture (max)	g/kg	25/100	25/100	25/100	25/100	25/100
Fat (min)	g/kg	100	100	100	100	100
Fat (max)	g/kg	120	120	120	120	120
Calcium (min/max)	g/kg	8/15	8/15	8/15	8/15	8/15
Phosphorus (min)	g/kg	5	5	5	5	5

Instructions:

Dairy meal must be fed twice or more often per day. Feed in combination with roughage. TMR with farm-produced sources of roughage or grazing. The actual quantity to be fed will depend on:

1. Quality of the roughage;
2. Milk production;
3. Stage of lactation;
4. Milk solids.

NPN Warning:

Warning: This animal feed contains an NPN source. Mix and feed strictly according to instructions.

Refer to page 4 for the complete NPN Warning.

Notes

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Nutri products for Beef Cattle

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Nutri products for Beef Cattle

Nutri's feeding programme for beef cattle provides:

- Optimum weight gain to achieve the desired marketable target mass within the most economical time;
- Good dressing percentages;
- Optimum feed turnover and nutrient absorption;
- Versatile concentrates for a variety of economical mixing options.

General recommendations

Implement an appropriate processing programme in collaboration with your veterinarian with respect to:

- Internal and external parasites;
- Implant programmes;
- Treatment in the feedlot;
- Animal dehorning;
- Sorting;
- In kraal conditions a floor area of approximately 12 m² per animal and feeding space of at least 20cm per animal are recommended.

Adaptation

As the Nutri range of finishing rations is high in energy, it is essential for the animals to be given an adaptation period of 14 days to prevent rumen disorders. Where **Nutri Easy Mix** is used, follow the adaptation recommendations as set out below.

Day	Feed/ animal	Roughage	Day	Feed/ animal	Roughage
1	0	<i>Ad lib.</i>	7	5 kg	<i>Ad lib.</i>
2	0	<i>Ad lib.</i>	8	6 kg	<i>Ad lib.</i>
3	1 kg	<i>Ad lib.</i>	9	7 kg	<i>Ad lib.</i>
4	2 kg	<i>Ad lib.</i>	10	8 kg	<i>Ad lib.</i>
5	3 kg	<i>Ad lib.</i>	11	9 kg	<i>Ad lib.</i>
6	4 kg	<i>Ad lib.</i>	12	<i>Ad lib.</i>	0*

* *Ad lib.* if **Sentra Super** is used in a cafeteria system.

Clean, cold drinking water should always be available.

Roughage that can be used includes maize leaves, sorghum residue, grass hay or legume hay (lucerne, groundnuts, cow peas).

Nutri Complete products:

**6201 Nutri Beef Complete
Cattle Fattening (V 246)**

**9601 Nutri Beef Complete
Cattle Fattening (NFF 0971)**

Class: Complete beef feed.

Composition:

Product	6201, 9601 Nutri Beef Complete Cattle Fatten
Reg. No.	V 246; NFF 0971
	g/kg
Protein (min)	100
Calcium (max)	8
Phosphate (min)	2.5
Fibre	110 – 200
Urea (max)	10

50 kg packaging.

Instructions:

Nutri Beef Complete Cattle Fattening:

This complete cattle finishing ration must be given to animals *ad lib.* after an adaptation period of 14 days. Intake about 3.4% of body mass.

See NPN Warning on page 41.

These products contain registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

Notes

Nutri Semi-Complete products:

6103 Nutri Sentra Super Meal (V 1112) 9603 Nutri Sentra Super Meal (NFF 0979)

Class: Cattle finishing feed.

Composition

Product	6103, 9603 Nutri Beef Sentra Super
Reg. No.	V 1112; NFF 0979
	g/kg
Protein (min)	130
Calcium (max)	10
Phosphate (min)	3
Fibre	90 – 120
Urea (max)	15

50 kg packaging.

Instructions:

Nutri Beef Sentra Super :

For finishing on grazing, approximately 2.7% of the body mass per animal should be fed per day after an adaptation period of 14 days. Under kraal conditions a complete cattle fattening ration can be obtained by mixing 750 kg of **Sentra Super** and 250 kg of high-quality roughage. Then feed *ad lib*. It can also be fed separately in combination with roughage in a cafeteria system in the feedlot. Feed both **Sentra Super** and roughage *ad lib*.

See NPN Warning on page 41.

These products contain registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

Approximate intakes of the different finishing rations per day (kg)

	Complete	Cafeteria system		Veld finishing
Body mass (kg)	6201 Nutri Beef Complete Cattle Fatten	6103 Nutri Beef Sentra Super	Roughage	6103 Nutri Beef Sentra Super
135	4.6	3.5	1.2	3.5
180	6.2	4.8	1.5	4.8
225	7.6	6	1.9	6
270	9	7.3	2.3	7.3
320	10.9	8.6	3	8.6
360	12.2	9.7	3.2	9.7
400	13.6	10.8	3.6	10.8
450	15	12	4	12

Notes

Nutri Concentrates:

Nutri Concentrates are formulated to allow them to be mixed with good quality raw materials on the farm to obtain quality fattening, show or production rations.

6308 Nutri Beef Concentrate 80 (V 3901) **9605 Nutri Beef Concentrate 80 (NFF 4168)**

Class: Protein concentrate for cattle finishing feed.

- Ideal for fattening and finishing older animals;
- Protein formulation is based on rumen degradability;
- An economical ready-mixed ration is obtained;
- Contains growth promoters for better growth and feed conversion in the RSA formulations;
- Export formulations contain modern, natural feed additives for optimum rumen function;
- Helps to prevent rumen disorders like bloat and acidosis.

6302 Nutri Beef Maxi (V 15877) **9606 Nutri Beef Maxi 33 (NFF 1931)**

Class: Protein concentrate for complete cattle feed.

- Scientifically formulated, for all ages and weight groups;
- The product contains high-quality protein (bypass protein), as well as the necessary rumen degradable protein to ensure optimum growth;
- Contains growth promoters for better growth and feed conversion in the RSA formulations;
- Export formulations contain modern, natural feed additives for optimum rumen function;
- Helps to prevent rumen disorders like bloat and acidosis.

Composition:

Product	6308, 9605 Nutri Beef Feedlot 80	6302, 9606 Nutri Beef Maxi 33
Reg. No.	V 3901; NFF 4168	V 15877; NFF 1931
	g/kg	g/kg
Protein (min)	800	330
Calcium (max)	20 – 25	47
Phosphate (min)	5 – 7.5	10
Fibre	50 – 200	100 – 150
Urea (max)	250	80
Packaging	50 kg	40 kg

See NPN Warning on page 41.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

Notes

Mixing ratios for finishing rations (cafeteria system)

Product	6308, 9605 Nutri Beef Feedlot 80	6302, 9606 Nutri Beef Maxi 33
	kg	kg
Concentrate	50	200
Maize meal	720	800
Total*	770	1 000
Composition		
	g/kg	g/kg
Protein (min)	130	130
Calcium (max)	6	9.1
Phosphorus (min)	2.8	3.6
Fibre	90 – 120	90 – 120
Urea (max)	16.2	16

See NPN Warning on page 41.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

* Roughage should be available *ad lib*.

Mixing ratios for complete fattening rations with grain and roughage

Product	6308, 9605 Nutri Beef Feedlot 80	6302, 9606 Nutri Beef Maxi 33
	kg	kg
Concentrate	50	160
Maize meal	650	600
Roughage	250	150
Total	950	910
Composition		
	g/kg	g/kg
Protein (min)	130	130
Calcium (max)	6	9.1
Phosphorus (min)	2.8	3.6
Fibre	90 – 120	90 – 120
Urea (max)	13.2	13.2

**Mixing ratios for complete fattening rations with grain, roughage
and maize silage**

Product	6308, 9605 Nutri Beef Feedlot 80	6302, 9606 Nutri Beef Maxi 33
	kg	kg
Concentrate	50	160
Maize meal	800	600
5807 Nutri Bypro 35 (NPN Free) or Oilcake (>35%)	25	0
Molasses meal or 6331 Nutrimol	80	80
Roughage	200	100
Maize silage	300	300
Feed lime	20	0
Total	1 475	1 240
Composition		
	g/kg	g/kg
Protein (min)	110	110
Calcium (max)	9	8
Phosphorus (min)	2	3
Fibre	80 – 120	80 – 120
Urea (max)	24	26

See NPN Warning on page 41.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

Instructions: Feed as discussed under **Sentra Super** (beef finishing rations) and complete beef fattening.

Notes

**Mixing ratios for complete fattening rations with grain and roughage
(phase feeding)**

Starter, growth and finishing phases with **Nutri Beef Maxi 33**, **Grainmix**,
Bypro 35 (NPN free) and **Nutrimol**

Product	Adaptation	Growth	Finisher
Day	1 - 14	15 - 75	76 - marketing
	kg	kg	kg
Maize meal, hominy chop or 6205 Nutri Grainmix	500	600	650
6302, 9606 Nutri Beef Maxi 33	120	160	160
Roughage	200	150	100
5807 Nutri Bypro 35 (NPN free) or Oilcake (>35%)	100	0	0
Molasses meal or 6331 Nutrimol	80	80	80
Total	1 000	990	990
Composition			
	g/kg	g/kg	g/kg
Protein (min)	140	120	120
Calcium (max)	9	11	11
Phosphorus (min)	3.2	3	2.5
Fibre	130	110	100

**6310 Nutri Beef
Easy Mix Starter (V 17399)**

**6311 Nutri Beef
Easy Mix Finisher (V 17398)**

**9631 Nutri Beef Easy
Mix Finisher (NFF 4264)**

Class: Protein concentrate for complete cattle feeds.

- These two pill products make quick, cost-effective and easy mixing possible without the need for roughage or mixing equipment.
- Ruminants can be fed with whole maize or small grains for above-average feed conversion with Easy Mix.

Composition:

Product	6310 Nutri Beef Easy Mix Starter	6311 / 9631 Nutri Beef Easy Mix Finisher
Reg. No.	V 17399	V 17398; NFF 4264
	g/kg	g/kg
Protein (min)	250	250
Calcium (max)	28.5	30
Phosphate (min)	4	4
Fibre	250 – 370	365 - 370
Urea (max)	30	45
Packaging	50 kg (pellets)	50 kg (pellets)

See NPN Warning on page 41.

This product contains registered veterinary drugs. Refer to the attached bag **label for the correct usage of the product.**

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

Mixing ratios with whole maize

Product	Adaptation	Growth	Finisher
Day	*3 – 14	15 - 75	76 - marketing
	kg	kg	kg
6310 Easy Mix Starter	450	0	0
6311/9631 Easy Mix Finisher	0	350	250
Whole maize	550	650	750
Total	1 000	1 000	1 000
Composition			
	g/kg	g/kg	g/kg
Protein (min)	150	140	125
Calcium (max)	13	11	10
Phosphorus (min)	3	2.7	2.5
Fibre	110 – 200	100 – 150	80 – 150
Protein from NPN (max)	40s	45	35

See NPN Warning on page 41.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

Instructions:

With whole maize: It is important to pour **Easy Mix** and the whole maize bag by bag into the feed trough in the above ratios and then stir well. A mixer is not required. It is important for the animals to be gorged when the feeding process starts.

*For the first two days they should therefore receive only roughage or gorge on grazing, together with 1 kg of **Easy Mix Starter** per animal per day.

Mixing ratios with hominy chop, oats or barley

Product	Adaptation	Growth	Finisher
Day	Day *3 – 14	Day 15 - 75	Day 76 – marketing
	kg	kg	kg
6310 Easy Mix Starter	450	0	0
6311/9631 Nutri Beef Easy Mix Finisher	0	350	250
Hominy chop, oats or barley	550	650	750
Total	1 000	1 000	1 000
Composition			
	g/kg	g/kg	g/kg
*Protein (min)	160	140	125
Calcium (max)	13	11	10
Phosphorus (min)	4	4	4
Fibre	140 – 200	120 – 150	100 – 130
Protein from NPN (max)	40	45	35

Instructions:
Mixing ratios with hominy chop, oats or barley

Mix hominy chop or the small grain and **Easy Mix** in the above ratio in the trough for the adaptation period. Then **Easy Mix** and the said small grain can be fed separately (according to a cafeteria system) in the feeding trough. It is important for the animals to be gorged when the feeding process starts.

*For the first two days they should therefore receive only roughage or gorge on grazing, together with 1 kg of **Easy Mix Starter** per animal per day.

* Protein values represent the mixing ratios with hominy chop. The protein values of the oats/barley mixing ratios will be higher. Intake should be between 9 and 10 kg per animal per day, depending on the body mass, temperature and other climatic conditions.

NPN Warning:

This animal feed contains an NPN source. Mix and feed strictly according to instructions.

Refer to page 4 for the Complete NPN Warning.

NUTRI FEEDS

The Formula for Success

Nutri products for Small stock

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Nutri products for Sheep

General Information:

The Nutri Feeds range of small stock (sheep and goat) products contributes to maximum animal production and profit through:

- Optimum weight gain to achieve the desired marketable target mass within the most economical time;
- Provision for the physiological needs of animals with respect to protein;
- energy, fibre, mineral and trace mineral needs from birth to slaughter;
- Ideal dressing percentage.

Nutri products also offer the following for small stock:

- Unique versatile concentrates for a variety of economical home mixing options;
- Safe and easy mixing, with minimum wastage.

Phase feeding:

- The Nutri Sheep product range was formulated scientifically for specific use in different physiological phases and comprises **BIR Receiver, BIR Weaner, BIR Builder and BIR Finisher**;
- **Nutri BIR** is also available in concentrate form for home mixing of a variety of small stock rations.

Notes

Nutri Complete products for small stock

The **Nutri Sheep BIR** range was specially formulated for the application of phase feeding in sheep feedlots.

Reg. no.	Product	7600 Nutri Sheep: BIR Receiver	7603 Nutri Sheep: BIR Weaner	7601 Nutri Sheep: BIR Builder	7602 Nutri Sheep: BIR Finisher	7203 Nutri Sheep: Ram, Lamb, Ewe	7302 Nutri Sheep: S13
		V 16422	V 16421 NFF 4263	V 16424	V 16423	V 1482	V 7556
		g/kg	g/kg	g/kg	g/kg	g/kg	g/kg
Protein (min)		110	150	140	130	130	120
Calcium (max)		10	15	10	10	15	15
Phosphorus (min)		2	4	2.5	3	3	3
Fibre		110 – 200	110 – 150	110 – 200	110 – 150	90 – 150	120 – 250
Moisture (max)		120	120	120	120	120	120
Urea (max)		10	4	10	10	10	0
Ammonium chloride		5	5	5	5	5	5

50 kg packaging.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

See NPN Warning on page 61.

7600 Nutri Sheep: BIR Receiver (V 16422)

Class: Complete sheep feed.

An adaptation ration that should be provided *ad lib.* to sheep from day 3. On the first two days sheep should be fed only roughage, or the sheep should be gorged on grazing. Feed for 14 days in feedlots for adaptation purposes, It also serves as a maintenance ration that is fed to sheep as a supplement level of 250 – 350 g per sheep during droughts to maintain body mass.

7603 Nutri Sheep: BIR Weaner (V 16421)

9703 Nutri Sheep: BIR Weaner (NFF 4263)

Class: Complete ewe and lamb feed.

Feed to lightweight lambs (less than 30 kg live mass) after the adaptation period on **BIR Weaner** for at least two weeks, or until a live mass of 35 kg is reached. Feed *ad lib.* This weaner ration can also be used as creep feed. Use creep pens so that only lambs have access to the ration.

7601 Nutri Sheep: BIR Builder (V 16424)

Class: Complete sheep feed.

Provide *ad lib.* to sheep after the adaptation period or after **BIR Weaner** if it was used. Feed until marketing or, if a heavier type of lamb is fed, up to a live mass of 40 kg. Particularly suitable for meat types.

7602 Nutri Sheep: BIR Finisher (V 16422, NFF 3728)

Class: Complete sheep feed.

Feed **Nutri Sheep BIR Finisher** *ad lib.* to lambs after adaptation period (from 40 kg live mass if **BIR Builder** ration was used) up to marketing. The finishing ration should be fed only to well-adapted lambs, as it is very high in energy and can cause diarrhoea if used injudiciously, **BIR Finisher** can be fed directly after adaptation on **BIR Receiver** to late-maturing lambs (SA Mutton Merino, etc.). The adaptation period on **BIR Receiver** should then be extended to 14 days instead of 10 days as prescribed.

The dressing percentage can be increased with **BIR Finisher** ration, However, take care that lambs do not become too fat, as this may effect grading. Particularly suitable for wool types.

7612 Nutri Sheep Finisher (V 28674) 9704 Nutri Sheep Finisher (NFF 3736)

Class: Complete sheep feed.

Nutri Sheep Finisher is a complete sheep feed and is fed to fatten sheep, It contains sufficient grain for fattening, as well as roughage and drugs to promote rumen health and feeding efficiency.

The export product does not contain any drugs and these are replaced by natural food supplements as alternative to drugs in order to support rumen health and action.

It contains anionic salts to limit the incidence of urinary calculi, It is an effortless product with minimum wastage that is fed *ad lib.* after an adaptation period of 14 days.

Composition	Min (g/kg)	Max (g/kg)
Protein	120	
Urea		10
Ammonium chloride	10	12
Total protein from urea		23.92%
Total protein from NPN		39.71%
Moisture		120
Fat	25	70
Fibre	110	200
Calcium		10
Phosphorus	2	

50 kg packaging.

See NPN Warning on page 61.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

7613 Nutri Sheep Stud Stock (V 28668; NFF 3737)

Class: Complete sheep feed.

Nutri Sheep Stud Stock is a complete sheep feed and is fed as is,

- It provides 140 g/kg good-quality protein, sufficient energy to improve the condition of stud stock, and sufficient effective fibre and drugs for rumen health;
- The export product contains natural food supplements as alternative to drugs in order to support rumen health and action;
- It contains anionic salts to prevent urinary calculi;
- It is available as pellets for ease of use and minimum wastage.

Composition	Min (g/kg)	Max (g/kg)
Protein	140	
Urea		2.5
Ammonium chloride	5	7.5
Total protein from urea		5.13%
Total protein from NPN		18.67%
Moisture		120
Fat	25	70
Fibre	110	200
Calcium		10
Phosphorus	2	

50 kg packaging.

See NPN Warning on page 61.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

Notes

7203 Nutri Sheep: Ram, Lamb and Ewe Ration (V 1482; NFF 3726)

Class: Ewe and lamb feed.

Serves as:

Stimulation feed on grazing: Feed from three weeks before servicing season to at least two weeks into the servicing season at 750 – 1 000 g per sheep per day, depending on field conditions and the condition of the sheep.

Ewe ration: Provide from the last four weeks of pregnancy to six weeks after start of lactation to stimulate milk flow, 250 – 500 g per sheep per day is sufficient, depending on field conditions and the condition of the ewes.

Finishing ration: Provide at 2.7% - 3.5% of body weight together with roughage *ad lib.* in kraals or grazing.

Composition	Min (g/kg)	Max (g/kg)
Protein	130	
Urea		10
Ammonium chloride	8	10
Total protein from NPN		34%
Moisture		120
Fat	25	70
Fibre		150
Calcium		15
Phosphorus	3	

50 kg packaging.

See NPN Warning on page 61.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

7302 Nutri Sheep Excella S13 (V 7556, NFF 1065)

Class: Drought feed.

Serves as a maintenance ration that is fed to sheep at a supplement level of 250 – 350 g per sheep per day during droughts to maintain body mass.

Alternatively, feed the product for 14 days *ad lib.* without roughage as an adaptation ration until moving over to the next phase (growth phase).

Composition	Min (g/kg)	Max (g/kg)
Protein	120	
Ammonium chloride	10	10
Total protein from NPN		13.7%
Moisture		120
Fat	15	70
Fibre	120	250
Calcium		15
Phosphorus	3	

50 kg packaging.

See NPN Warning on page 61.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

Notes

Notes

Nutri Sheep Concentrates

Nutri Concentrates are formulated to allow them to be mixed with good-quality raw materials on the farm to obtain quality fattening, show or production rations.

6301 Nutri Sheep Maxi 33 (V 17396)
9607 Nutri Sheep Maxi 33 (NFF 4167)

Class: Protein concentrate for complete sheep feed.

Composition	g/kg
Protein (min)*	330
Calcium (max)	50
Phosphorus (min)	5
Moisture (max)	120
Fibre	80 – 150
Ammonium chloride (max)*	35
Urea (max)	55
* (% protein from NPN)	64.6

40 kg packaging.

See NPN Warning on page 61. This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

Mixing ratios for finishing or ram, lamb and ewe ration

Product	Finishing or ram, lamb and ewe ration
6301, 9607 Nutri Sheep Maxi 33	200
Maize meal or grain	800
Total	1 000

*** Roughage available ad lib.**

Composition	g/kg
Protein (min)*	130
Calcium (max)	10
Phosphorus (min)	3
Moisture (max)	120
Fibre	80 – 150
Ammonium chloride (max)*	5
Urea (max)	12
* (% protein from NPN)	32.92

See NPN Warning on page 61.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

Instructions: Feed as discussed under Nutri Sheep: Ram, Lamb and Ewe Ration.

Mixing ratios with maize, small grains or Nutri Grainmix

Product	Complete Sheep Ration Maxi 33 (Barley/Oats)	Complete Sheep Ration Maxi 33 (Maize Meal)	Complete Sheep Ration Maxi 33 (Grainmix)
	kg	kg	kg
6301, 9607 Nutri Sheep, Maxi 33	120	120	120
Barley or oats	620	0	0
Grainmix	0	0	500
Maize meal	0	420	0
Lucerne	150	300	200
Low-grade roughage	50	50	100
Nutrimol	0	80	80
Total	1 020	970	1 000

Composition	kg	kg	kg
Protein (min)*	136	127	130
Calcium (max)	10	10	10
Phosphorus (min)	3	3	3
Moisture (max)	120	120	120
Fibre	110 – 200	110 – 200	110 – 200
Ammonium chloride (max)*	5	5	5
Urea (max)	7.8	7.4	7.4
* (% protein from NPN)	20.14	20.8	20.6

See NPN Warning on page 61.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

Instructions: Feed as discussed under Nutri Sheep: BIR Finisher.

General recommendations

1. Note that certain products contain urea and therefore should be fed strictly according to the prescriptions on the bag labels.
2. As the finishing products are high in energy, it is vital for sheep to be adapted gradually over a period of 14 days, or as prescribed under specific rations, to prevent rumen disorders.

6312 Nutri Sheep BIR Concentrate (V 18568)

9312 Nutri Sheep BIR Concentrate (NFF 4271)

Class: Protein concentrate for complete sheep feed.

The unique Nutri Sheep BIR Concentrate by Nutri Feeds is the only feed product available locally that can be fed with whole grains without adding roughage or grinding the grain.

The ease of use and versatility of Nutri Sheep BIR Concentrate ensures optimal production and profit and completely eliminates grinding and mixing costs.

6312 Nutri Sheep BIR Concentrate (V 18568)

9312 Nutri Sheep BIR Concentrate (NFF 4271)

Composition	g/kg
Protein (min)*	220
Urea (max)	20
Protein from NPN (max)	33.54%
Moisture (max)	120
Calcium (min/max)	18/20
Fat (min/max)	10/100
Phosphorus (min)	2.5
Fibre (min/max)	280/320

50 kg packaging.

See NPN Warning on page 61.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

Instructions:

It is important for the animals to start the feeding process with a full stomach.

Roughage should therefore be given *ad lib.* for the first two days, or the animals should have gorged on grazing, together with 500 g of **BIR Concentrate** per animal per day. The programme as set out in the table should then be followed.

It is important for **BIR Concentrate** to be mixed with the whole maize, whole oats or barley in the ratio as indicated in the table. Mixing can be done in the feeding trough. The ration can be fed in a cafeteria system after the adaptation period. The sheep will choose **Nutri Sheep BIR Concentrate** and whole maize/oats/barley in a ratio of approximately 34% concentrate to 66% whole grain.

Mixing ratios for adaptation rations

Product (kg)	Adaptation	Adaptation
Day 1 and 2	Roughage <i>ad lib.</i> plus 500 g BIR Concentrate per animal per day	
Day	3 – 14	3 – 14
6312 BIR Concentrate	500	500
Whole maize	500	0
Oats or barley	0	500
Total	1 000	1 000
Composition	g/kg	g/kg
Protein (min)	140	160
% protein from NPN (max)	26.36	21.7
Urea (max)	10	10
Fat	25 - 70	25 - 70
Fibre	110 – 200	110 – 200
Moisture (max)	120	120
Calcium (max)	10	10
Phosphorus (min)	2.5	2.5

See NPN Warning on page 61.

Mixing ratios for growth and finishing rations

Product (kg)	Growth	Growth	Finisher	Finisher
Day	15 – 40	15 – 40	41 - marketing	41 - marketing
BIR Concentrate	400	400	350	350
Whole maize	600	0	700	0
Oats or barley	0	600	0	700
Total	1 000	1 000	1 050	1 050
Composition				
Composition	g/kg	g/kg	g/kg	g/kg
Protein (min)	135	150	125	140
% protein from NPN (max)	21.87	17.9	19.75	15.93
Urea (max)	8	8	6.7	6.7
Fat	25 - 70	25 - 70	25 - 70	25 - 70
Fibre	110 – 200	110 – 200	110 – 200	110 – 200
Moisture (max)	120	120	120	120
Calcium (max)	10	10	10	10
Phosphorus (min)	2.5	2.5	2.5	2.5

See NPN Warning on page 10.

This product contains registered veterinary drugs. Refer to the attached bag label for the correct usage of the product.

Please note (Namibia and Botswana): Export formulations for the product contain no veterinary drugs.

* Protein from Oats/Barley: 100 g/kg

NPN Warning:

This animal feed contains an NPN source. Mix and feed strictly according to instructions.

Refer to page 4 for the complete NPN Warning.

NUTRI FEEDS

The Formula for Success

Nutri Tubs

Contents:

6601 Nutri Tub Phosphate	64
6611 Nutri Tub Protein	65
6641 Nutri Tub Energy	66
6636 Nutri Tub Game	67



Nutri Tubs

To cattle and sheep producers the value and effectiveness of **Nutri Tub** supplements lie not only in the condition and health of their animals, but also in the unique benefits of the **Nutri Tub** product range:

- The unique 'toffee' concept makes this the only lick that cannot be bitten but must literally be licked. This ensures regulated intake;
- Because it is molasses based, the supplements are tastier and loss through wind is prevented. The composition is also not altered through selective feeding;
- With the unique, multipurpose tub packaging the lick cannot be trampled and wastage is completely eliminated. When it is empty, the tub can easily be used for other purposes;
- The licks are weather resistant and retain their composition in all climatic conditions;
- The licks are 100% safe in wet conditions – only the top 2.5 cm becomes wet;
- They contain NPN to stimulate microbial activities for optimum fibre digestion.

Nutri Tub feed supplements are scientifically formulated to supplement specific nutrient deficiencies in natural grazing.

Notes

The Nutri Tub range

6601 Nutri Tub Phosphate (V 14996; NFF 1132)

Class: Mineral and trace mineral supplement for ruminants.

- Nutri Tub Phosphate is an effective and convenient product to supplement macro minerals (Ca and P) on deficient summer grazing.
- It furthermore provides trace minerals that are essential to the development of growing animals or to promote the production and reproduction of the adult animal.

Composition	Min (g/kg)	Max (g/kg)
Moisture		120
Calcium		120
Phosphorus	60	
Sulphur	25	
	Min (mg/kg)	
Iron	750	
Copper	150	
Manganese	600	
Zinc	600	
Cobalt	2	
Iodine	15	
Selenium	3	
Feed recommendations	g/day	
Adult cattle	100	
Lactating cows	200	
Adult sheep/goats	18	
Lactating ewes	30	

40 kg packaging.

Notes

6611 Nutri Tub Protein (V 14994; NFF 1133)

Class: Protein, mineral and trace mineral supplement for ruminants.

- Nutri Tub Protein is a protein, mineral and trace-mineral supplement for ruminants (cattle, sheep and goats);
- Feed ad lib to animals on good-quality winter grazing available in sufficient quantities;
- The lick is available in a convenient container that is easy to handle, with no wastage;
- The condition of the animals should be monitored regularly, particularly during the late winter (August to September), when a protein/energy lick should be considered to meet the increased nutrient requirements of lactating and first-calf cows.

Composition	Min (g/kg)	Max (g/kg)
Protein	280	
Urea		20
% from urea		20.5
Total protein from NPN		81%
Moisture		120
Calcium		33
Phosphorus	11	
Magnesium	6	
Potassium	22	
Sulphur	5	
	Min (mg/kg)	Max (mg/kg)
Iron	140	
Copper	28	
Manganese	110	
Zinc	110	
Cobalt	0.3	
Iodine	1.5	
Selenium	0.3	
	IE	
Vitamin A	12000	
Feed recommendations	Min (g/day)	Max (g/day)
Cattle	550	650
Sheep and goats	90	120

45 kg packaging.

The condition of the animals should be monitored regularly, particularly during the late winter (August to September), when an energy lick should be considered to meet the increased nutrient requirements of lactating and first-calf cows.

See NPN Warning on page 4.

6641 Nutri Tub Energy

(V 17396; NFF 1930)

Class: Protein, energy and mineral supplement for ruminants.

- Nutri Tub Energy is a protein, mineral and energy supplement for ruminants on grazing and is suitable for production purposes;
- It prevents the loss of condition in beef cows with calves or ewes with lambs on winter grazing;
- It meets the needs of ruminants on poor-quality winter grazing, particularly from July until spring, when the quality of the grazing is at its lowest;
- It is a good lick for replacement heifers during winter for optimum growth to achieve mating mass at an early age;
- Replacement animals and ewes/cows with lambs/calves react very well to the blocks with respect to growth and milk flow;
- Good increases in mass are obtained with steers on green summer grazing;
- Good condition lick for bulls one month before the servicing season, as well as for sheep on winter and summer grazing;
- Can also be used as stimulation lick a month before up to a month into the servicing season.

Composition	Min (g/kg)	Max (g/kg)
Protein	160	
Urea		20
Total protein from NPN		52.51%
Moisture		160
Fibre	10	
Calcium		20
Phosphorus	5	
Energy (estimated) MJ ME/kg	7.5	
Feed recommendations	Min (g/day)	Max (g/day)
Cattle	1200	2000
Sheep and goats	200	400

40 kg packaging.

6636 Nutri Tub Game

(V 19694; NFF 1452)

Class: Protein, mineral and trace-mineral supplement for ruminants

- Nutri Tub Game is a protein, mineral and trace-mineral supplement for ruminant game on any type of grazing;
- It provides 12% protein with no NPN, which makes it suitable for all species of game;
- As the product also provides energy and balanced trace minerals it is particularly suitable for the growth and production of game on good summer grazing or during moderate winters;
- Because of the form of the product it is convenient to use under extensive condition;
- It contains added aloe powder for game.

Feed recommendations:

Make sure that lick blocks are always available to the animals.

Composition	Min (g/kg)	Max (g/kg)
Protein	120	
Moisture		160
Calcium		30
Phosphorus	7.5	
Magnesium	3.5	
Potassium	30	
Sulphur	2.5	
Energy (estimated) MJ ME/kg	8.5	
	Min (mg/kg)	Max (mg/kg)
Iron	135	
Copper	26.5	
Manganese	106	
Zinc	100	
Cobalt	0.3	
Iodine	1.35	
Selenium	0.3	
Molybdenum	6.25	
Feed recommendations	Min (g/day)	Max (g/day)
Big game	950	1 500
Small game	180	350

40 kg packaging.

NUTRI FEEDS

The Formula for Success

Nutri Lick range

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Nutri Lick range

The Nutri Lick range is scientifically formulated to supplement possible protein, phosphate and mineral deficiencies in natural grazing for optimum production, reproduction and profitability.

- The high molasses content of Nutri Lick makes it palatable;
- The higher-quality proteins increase microbial action for optimum nutritional value and feed utilisation;
- An improved mixing process provides an end product with a better composition and regulated intake;
- The higher trace-mineral levels promote the reproduction rate and increase calf and lamb percentages;

Instructions:

- **Adaptation:** When changing over from an NPN-free animal feed to one that contains NPN, it is advisable to feed a 50/50 mixture of the two types of feed for a period of four to six days;
- The mixture is a supplement and not a feed, Sufficient grazing should be available at all times;
- Keep the lick tubs full, and prevent hungry animals from feeding greedily, A constant daily intake can help to prevent poisoning;
- Protect this feed supplement from rain (meal-type licks), NPN is soluble and animals drinking a solution like this can be poisoned.

Lick supplement programme: summer licks, winter licks and production licks

A three-phase lick supplement programme is recommended.

Phase 1: The primary deficiency in summer grazing is phosphorus (P) and area-specific trace-mineral deficiencies. Feed Nutri's summer-lick range on green, succulent grazing. Products include **Nutri Tub Phosphate**, **Nutri Fos 6 or 12** (for mixing) or **Nutri Profos 10 or 20** (for mixing).

Phase 2: As soon as the quality of the grazing declines (typically after the flowering stage of the grazing), you can switch first to a transition lick and then to a full winter lick that is high in minerals and NPN. Products that are optimally balanced for trace minerals are also available for the winter season. The aim of winter licks is to supplement the primary deficiency of the rumen microorganisms and thus stimulate the utilisation of the grazing. Winter licks therefore have a complementary effect to grazing and are not a substitute for grazing.

Phase 3: As soon as the quality of the grazing and the availability decline, **Nutri Production licks** should be offered to the animals. Production licks are also recommended for animals that are fed at levels above maintenance, including late-pregnant cows or ewes, lactating animals, rapidly growing animals or animals whose condition score is inadequate.

General: Use the intake of the lick and grazing as guideline when you have to switch to the next phase.

Nutri licks for summer

General recommendations on phosphate supplements

The optimum absorption of phosphate in lick supplements is essential for animal health.

The optimum absorption of phosphate is:

- Necessary for optimum microbial protein production in the rumen;
- Indispensable for metabolic functioning and energy metabolism;
- Vital for bone formation and muscle growth, particularly in young animals;
- Essential for fertility, reproduction and hormone action – it controls the oestrus cycle of female animals.

A deficiency in or inefficient absorption of phosphate leads to:

- Decrease in appetite, decline in condition and reproduction;
- Deviant eating habits (pica) – animals start to gnaw on bones, poles, trees, soil, etc., which can lead to diseases;
- Stiff sickness (joints swell, bones weaken – as the body starts to extract phosphate from the skeleton);
- Low milk production, which leads to poor pre-weaning growth in young animals and ultimately a poor weaning mass with a negative effect on animal performance and profit.

Benefits of optimum phosphate absorption:

- Optimum feed intake, which leads to higher mass increase, improved growth, fertility and reproduction;
- Stronger bone structure and teeth.

6450 Nutri Lek Fos 12 (V 5008; NFF 1553)

Class: Mineral and trace-mineral supplement for ruminants.

Composition	Min		Max
	mg/kg	g/kg	g/kg
Moisture			120
Calcium			240
Phosphorus		120	
Magnesium		5	
Iron	2 500		
Copper	500		
Manganese	2 000		
Zinc	1 500		
Cobalt	6		
Iodine	25		
Selenium	6		

50 kg packaging.

Instructions:

Mix 50 kg coarse salt and 50 kg **Nutri Lick Fos 12**.

Daily intake (mixture):

17 g per sheep.
30 g per lactating ewe.
100 g per animal for cattle.
200 g per lactating cow.

Notes

6451 Nutri Lek Fos 6

(V 8874; NFF 3724)

Class: Mineral and trace-mineral supplement for ruminants.

Composition	Min		Max
	mg/kg	g/kg	g/kg
Moisture			120
Calcium			120
Phosphorus		60	
Magnesium		2.5	
Iron	1 250		
Copper	250		
Manganese	1 000		
Zinc	750		
Cobalt	3		
Iodine	12.5		
Selenium	3		
Zinc	1 500		
Cobalt	6		
Iodine	25		
Selenium	6		

50 kg packaging.

See NPN Warning on page 95.

Instructions:

Feed as is. No further mixing required.

Daily intake (mixture):

17 g per sheep.
 30 g per lactating ewe.
 100 g per animal for cattle.
 200 g per lactating cow.

Notes

6453 Nutri Profos 20 (V 17568)

Class: Mineral and trace-mineral supplement for ruminants.

Composition	Min		Max
	mg/kg	g/kg	g/kg
Protein		200	
Total protein from NPN			97.99%
Urea			55
Moisture			120
Calcium			240
Phosphorus		120	
Magnesium		5	
Iron	2 500		
Copper	500		
Manganese	2 000		
Zinc	1 500		
Cobalt	6		
Iodine	25		
Selenium	6		

50 kg packaging.

See NPN Warning on page 95.

Instructions:

Mix 50 kg of coarse salt with 50 kg **Nutri Lick Profos 20**.

* Mix this concentrate thoroughly with prescribed ingredients.

Daily intake (mixture):

17 g per sheep.
30 g per lactating ewe.
100 g per animal for cattle.
200 g per lactating cow.

6452 Nutri Lek Profos 10 (V17567)

Class: Mineral and trace-mineral supplement for ruminants.

Composition	Min		Max
	mg/kg	g/kg	g/kg
Protein		100	
Total protein from NPN			95.4%
Urea			10
Moisture			120
Calcium			120
Phosphorus		60	
Magnesium		2.5	
Iron	1 250		
Copper	250		
Manganese	1 000		
Zinc	750		
Cobalt	3		
Iodine	12		
Selenium	3		

50 kg packaging.

See NPN Warning on page 95.

Instructions:

Feed as is. No further mixing required.

Daily intake:

17 g per sheep.
30 g per lactating ewe.
100 g per animal for cattle.
200 g per lactating cow.

Notes

Nutri winter licks

As soon as the quality of the grazing starts to decline, as can be seen from an increase in the intake of the summer lick, the animals should be switched over to a transition lick and then to a complete winter lick.

Typical transitional lick:

- The aim of transition licks is to adapt the animals' urea so that condition and body mass are maintained;
- This transition lick will still supply P at about 6 to 12 g P/animal/day, but will also adapt the animal to the high protein;
- This lick supplements the grazing and will never replace grazing intake or result in substitution.

Mix	Kg	Composition
Nutri Lick Winter *	200	Crude protein – 200 g/kg
6450 Nutri Lick Fos 12	100	Ca – min 80 g/kg
Salt	100	P – min 35 g/kg
TOTAL	400	
Intake:	Sheep:	Cattle:
	30 - 50 g/day	200 - 300 g/day

* **Nutri Lick Winter 40** (cattle) or **Nutri Lick Winterbreaker 32** (cattle and sheep)

Notes

6401 Nutri Lick Winterbreker 32 (V 3342)**9641 Nutri Lick Winterbreker 32 (NFF 1067)*****9642 Nutri Lick Bosbreker (NFF 4078)**

Class: Protein, minerals and trace-mineral supplement for sheep and cattle.

Composition	g/kg
Protein (min)	320
Total protein from NPN (max)	89.59%
Moisture (max)	160
Calcium (max)	48
Phosphorus (min)	12
Magnesium (min)	3

Composition	mg/kg (min)
Iron	180
Copper	32
Manganese	180
Zinc	250
Cobalt	0.5
Iodine	4
Selenium	0.4

40 kg packaging.

***9642 Nutri Lick Bosbreker** has the same nutrient specifications as Winterbreker 32 set out above, but with added PEG.

- PEG is a tannin binder that makes it possible to utilise high-tannin roughages and leafy feed.

See NPN Warning on page 95.

Instructions:

These licks are ready-mixed, high-quality winter licks for high-producing sheep or cattle on dry winter grazing.

The lick can also serve as a transition lick after the animals have been adapted to the high NPN levels.

Daily intake: 120 – 150 g per sheep.
500 - 1 000 g per animal for cattle.

6403 Nutri Lick Beef 50 (V 5252; NFF 0978)

Class: Protein supplement for cattle.

Composition	g/kg
Protein (min)	500
Urea (max)	145
Total protein from NPN (max)	97.48%
Moisture (max)	120
Calcium (max)	75
Phosphorus (min)	25

40 kg packaging.

See NPN Warning on page 95.

Instructions:

Winter 50 is a ready-mixed, economical winter lick for cattle on dry winter grazing.

Daily intake: 300 - 450 g per animal for cattle.

Notes

6412 Nutri Lick Winter 40 (V 17401; NFF 1453)

Class: Protein supplement for cattle.

Composition	g/kg
Protein (min)	400
Urea (max)	113
Total protein from NPN (max)	96.89%
Moisture (max)	120
Calcium (min/max)	12/40
Phosphorus (min)	10

40 kg packaging.

See NPN Warning on page 95.

Instructions:

Winter 40 is a ready-mixed, economical winter lick for cattle on dry winter grazing.

Daily intake: 375 - 750 g per animal for cattle.

Notes

Nutri Production licks

- When the intake of the winter lick starts to decline when the quality of grazing is poor and availability low, switch over to a production lick;
- Where an increased percentage of animals on grazing is required, production licks are also recommended.

6404 Nutri Lick Production (V 28671; NFF 3733)

Class: Protein, energy and mineral supplement for ruminants.

- Nutri Lick Production is a protein, energy and mineral lick for sheep and cattle;
- It contains sufficient high-quality protein, high levels of grain (energy), as well as minerals in order to stimulate production of ruminants on poor-quality grazing in the late winter;
- Because of the inclusion of molasses syrup it is tasty and results in high intake;
- It is fed as is and no further mixing is required.

Composition	Min (g/kg)	Max (g/kg)
Protein	250	
Urea		35
Other NPN sources		45
Total protein from NPN		54.25%
Calcium	12	40
Phosphorus	10	
Energy (estimated) MJ ME/kg	8.50	

40 kg packaging.

See NPN Warning on page 95.

Instructions:

Daily intake: 180 – 400 g per sheep.
940 - 2 200 g per animal for cattle.

Notes

6402 Nutri Lick Cow and Calf (V 28670; NFF 3732)

Class: Protein, mineral supplement for ruminants.

- Nutri Lick Cow and Calf is a lick for a producing cow with a calf that annually successful weans a calf;
- It contains high levels of protein (300 g/kg) for the economical production of the cow with a calf on dry grazing;
- It limits the loss of mass and condition of the lactating cow in order to promote re-conception.
- The consequent increased milk production of the cow promotes the calf weaning mass;
- Because of the inclusion of molasses syrup it is tasty and results in high intake.

Composition	Min (g/kg)	Max (g/kg)
Protein	300	
Urea		75
Other NPN sources		60
Total protein from NPN		87.78%
Calcium	20	48
Phosphorus	12	

40 kg packaging.

See NPN Warning on page 95.

Instructions:

Daily intake: 750 - 1 100 g per animal for cattle.

Notes

6415 Nutri Lick Energy 18 (V 17402; NFF 1555)

Class: Protein, energy and mineral supplement for ruminants.

Composition	g/kg
Protein (min)	180
Urea (max)	20
Total protein from NPN (max)	59.34%
Moisture (max)	120
Calcium (min/max)	10/24
Phosphorus (min/max)	6/10
Energy (estimated) MJ ME/kg	7.5

40 kg packaging.

See NPN Warning on page 95.

Instructions:

Energy Lick 18 is a ready-mixed energy lick for the maturing of young animals or for mass increase in older animals on green grazing or pasture. It can also be used as production lick for sheep on poor-quality grazing.

Daily intake: 250 – 400 g per sheep.
 1 200 - 2 000 g per animal for cattle.

Notes

6421 Nutri Lick Sheep 16 (V17397)**Class:** Protein, energy and mineral supplement for ruminants.

Composition	g/kg
Protein (min)	160
Urea (max)	15
Total protein from NPN (max)	66.51%
Moisture (max)	120
Calcium (min/max)	10/16
Phosphorus (min)	4
Energy (estimated) MJ ME/kg (min)	7.5

40 kg packaging.

See NPN Warning on page 95.

Instructions:**Sheep 16** promotes growth in animals on natural summer grazing. It is also a flushing lick if it is fed *ad lib.* from 30 days before to 30 days after service.**Daily intake:**

250 – 400 g per sheep.

1 200 - 2 100 g per animal for cattle.

Notes

6400 Nutri Lick Creep

(V 28670; NFF 3731)

Class: Protein, energy and mineral supplement for ruminants.

- **Nutri Lick Creep** is a ready-mixed creep lick for ruminants with 20% protein that also supplies energy and minerals for the young animal's development needs;
- It can be fed to calves from one month old, and because it is a lick, wastage is limited;
- It contains low levels of NPN, as the young calf's rumen is still developing and is adapting to NPN feed, and the development of the enzyme is required for urea digestion (urease);
- It is tasty, contains sufficient grain to stimulate rumen development, as well as high levels of quality protein and a limited NPN content to increase weaning mass.

Composition	Min (g/kg)	Max (g/kg)
Protein	200	
Urea		20
Other NPN sources		40
Total protein from NPN		50.02%
Calcium	12	25
Phosphorus	10	
Energy (estimated) MJ ME/kg (min)	8.2	

40 kg packaging.

See NPN Warning on page 95.

Instructions:

Daily intake: 185 – 400 g per sheep.
 985 - 3 000 g per animal for cattle.

Notes

Nutri Lick Concentrates

6419 Nutri Lick Winter 60 (V 28672; NFF 3734)

Class: Protein and mineral concentrate supplement for ruminants.

- **Nutri Lick Winter 60** is a protein and mineral concentrate for ruminants and must be mixed further;
- Because of the high protein content it is suitable for mixing a range of licks according to the season and specific needs;
- It is mixed in equal parts with salt in order to provide an economical winter lick for cattle that provides 300 g of protein per kg.

Instructions:

Daily intake: 500 - 1 000 g per animal for cattle.

- Mixing 350 kg of **Nutri Lick Winter 60** with 200 kg of salt and 450 kg of maize meal produces an extremely effective home-mixed production lick for cattle and sheep.

Daily intake: 100 – 300 g per sheep.

6300 - 1 600 g per animal for cattle.

Composition	Min (g/kg)	Max (g/kg)
Protein	600	
Urea		165
Other NPN sources		65
Total protein from NPN		87.47%
Calcium	45	80
Phosphorus	24	

Mixing ratios	Winter Lick 30	Production lick
Nutri Lick Winter 60	500	350
Salt	500	200
*Maize meal		450
Total (kg)	1 000	1 000

Composition (g/kg)		
Protein (min)	300	245
Urea (max)	82.50	57.80
Total protein from NPN	87.47%	75.05%
Calcium	22.5 – 40	16 – 28

Mixing ratios	Winter Lick 30	Production lick
Phosphorus (min)	12	9.5
Intake (g/day)		
Cattle	500 – 1 000	635 – 1 600
Sheep		105 – 300

50 kg packaging. See NPN Warning on page 95.

*Maize meal: Protein 80 g/kg (min)

Notes

6431 Nutri Lick Concentrate 80

(V 19002; NFF 1554)

Composition	g/kg
Protein (min)	825
Urea (max)	235
Total protein from NPN (max)	94.42%
Moisture (max)	120
Calcium (min/max)	5/8
Phosphorus (min/max)	2/6
Energy (estimated) MJ ME/kg	3.8

Instructions:

Ingredient	Maintenance lick	Maintenance lick +P	Winter lick + P	Production lick
	Protein supplement	Protein, mineral supplement	Protein, mineral supplement	Protein, mineral, energy supplement
Concentrate 80 Kg	600	600	500	250
Salt (kg)	400	400	400	200
*Grain(kg)			400	600
Nutri Fos 12 (kg)	0	100	100	50
Total (kg)	1 000	1 100	1 400	1 100
Composition				
Protein (min)	495	450	317.5	230
Total protein from NPN (max)	94.42%	94.42%	87.77%	76.95%
Calcium (max)	4.8	22.5	17.4	11.3
Phosphorus (min)	1.2	12	10	7.3
Urea (max)	141	128.2	84	53.4
Intake (g/day)				
Cattle	310 (min) 460 (maks)	333 (min) 510 (maks)	475 (min) 780 (maks)	1200 (min) 1700 (maks)

50 kg packaging.

See NPN Warning on page 95.

*Grain: Protein 80 g/kg (min)

Instructions:

1. Maintenance lick: Feed *ad lib.* during protein deficiencies.
2. Maintenance lick + P: Feed *ad lib.* during protein deficiencies on grazing with phosphate deficiency.
3. Winter lick + P: Feed *ad lib.* during protein deficiencies on grazing with low availability and phosphate deficiency.
4. Production lick: This lick mixture will promote growth on natural summer grazing. It is also a stimulation lick if it is fed *ad lib.* to cattle from 30 days before to 30 days after service.

Notes

6430 Nutri Lick Concentrate 4-1-5 (V 28673; NFF 3735)

Class: Protein and mineral concentrate for ruminants.

- **Nutri Lick Winter 4-1-5** is a protein and mineral concentrate for ruminants and must be mixed further;
- It gives the producer the freedom to mix various licks at home.
- **Winter lick:** Mix 4 parts **Nutri Lick Concentrate 4-1-5** with 1 part urea and 5 parts salt to produce an economical winter lick with 400 g protein per kg;
- **Production lick:** Mix the above winter lick further with equal parts maize meal or small grains to produce an effective production lick.

Composition	Min (g/kg)	Max (g/kg)
Protein	280	
Other NPN sources		255
Total protein from NPN (max)		89.65%
Calcium	60	125
Phosphorus	45	
Phosphorus	24	

50 kg packaging.

Mixing ratios (kg)	Winter Lick 40	Production lick
Nutri Lick Concentrate 4-1-5	200	250
Salt	250	250
Urea	50	50
Maize meal, small grains or Enermix	0	500
Total (kg)	500	1 000

Composition (g/kg)		
Protein (min)	400	250
Urea (max)	100	50
Total protein from NPN	96.85%	80.88%
Calcium	24 – 50	12 – 25
Phosphorus (min)	18	9

Intake (g/day)		
Cattle	375 - 750	670 - 1 500
Sheep		115 - 280

See NPN Warning on page 95.

*Maize meal: Protein 80 g/kg (min)

NPN Warning:

This animal feed contains an NPN source. Mix and feed strictly according to instructions.

Refer to page 4 for the complete NPN Warning.

Notes

NUTRI FEEDS

The Formula for Success

Nutri products for ruminants: general

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Nutri products for ruminants: general

This section contains Nutri products that are recommended for any type of ruminant.

6330 Nutri Ruminant Multi Mix 20 (V 18567) 9330 Nutri Ruminant Multi Mix 20 (NFF 4169)

Class: Protein and energy concentrate for ruminants.

- A versatile product that can be used as is;
- The product is furthermore suitable for mixing with farm-produced raw materials to provide licks, dairy, beef or small-stock rations in cases where the producer prefers to mix his own products;
- Feel free to contact your Nutri Feeds technical adviser to discuss additional tailor-made formulas.

Composition	g/kg
Protein (min)	200
Total protein from NPN (max)	67.81%
Urea (max)	35
Moisture (max)	120
Fibre (max)	200
Calcium (min/max)	10/20
Fat (min/max)	10/100
Phosphorus (min)	4
Energy (estimated) MJ ME/kg (min)	8.5

40 kg packaging.

See NPN Warning on page 101.

Mixing ratios

Ingredient (kg)	Energy lick	Dairy 15%	Ewe and lamb supplement	Sheep and beef finisher	Calf growth
Multi Mix 20	400	240	200	320	280
Nutri Bypro 35 (NPN Free) or oilcake (>35% protein)	100	150	100	25	200
Maize meal, hominy chop or Enermix	260	510	160	510	520
Molasses meal or Nutrimol	40	80	40	40	80
Salt	100	5	100	0	0
Nutri Fos 12	0	10	0	0	20
Feed lime	0	5	5	5	0
Total	900	1 000	605	900	1 100

Composition					
Protein (min)	150	150	150	130	160
Total protein from NPN	40.3	25	29.9	37.3	15.1
Urea (max)	15.6	10.2	11.6	12.4	8.5
Fat		25 - 70		25 - 75	25 - 80
Fibre (max)		120		120	70 - 90
Moisture (max)	120	120	120	120	120
Calcium (max)	14	10	12	10	16
Phosphorus (min)	3.5	4.5	3	3	6
Energy (estimated) MJ ME/kg	8.8	10.7	8.8		

See NPN Warning on page 4.

Instructions:

- Energy lick (protein and energy supplement)

Daily intake: 250 – 400 g per sheep.
1 200 - 2 000 g per animal for cattle.
- Dairy 15% (concentrated dairy meal)**

Feed approximately 2 kg per 5 litres of milk produced together with roughage/grazing *ad lib.*
- Ewe and lamb supplement (protein and energy supplement)**

Ewe and lamb supplement will promote growth and milk production of animals on summer grazing. If given *ad lib.* from 21 days before to 21 days after mating, it will serve as flushing feed.

Daily intake: 2.5 - 3% of live mass
- Sheep and beef finishing ration**

Feed *ad lib.* together with good-quality roughage on a cafeteria basis in feedlots or on natural grazing without roughage.

Daily intake: 250 – 400 g per sheep.
1 200 - 2 000 g per animal for cattle.
- Calf growth ration**

Mix 75 parts of calf growth mixture with 25 parts of good-quality hay (lucerne/oats) to obtain a complete calf growth ration.
- Multimix 20**

Can be used as supplementary feed on its own.

Daily intake (max): 500 g per sheep.
2 000 g per animal for cattle.

NPN Warning:

This animal feed contains an NPN source. Mix and feed strictly according to instructions.

Refer to page 4 for the complete NPN Warning.

Notes

5807 Nutri Bypro 35 (NPN Free) (V-IN PROCESS; NFF 4170)

Class: Protein concentrate for ruminants.

Bypro 35 is a urea and NPN-free HPC (high-protein concentrate) for ruminants and game to be used for home mixing of a variety of high-quality animal-feed products.

Bypro 35 consists of a minimum of three natural protein sources, resulting in a positive amino-acid profile. Protein sources include:

- Sunflower oilcake and/or
- Gluten 20 and/or
- Soybean oilcake and/or
- Canola oilcake

The principle of the natural protein (bypass protein) for Nutri **Bypro 35** is to support production, particularly in high-producing animals, for example:

- Cows/ewes that are calving/lambing and produce milk;
- Calves/lambs that are growing and cannot utilise NPN (urea) due to the absence of urease;
- Young feedlot animals, calves and lambs that first have to build frame size with natural protein before their mass can increase.

Composition	Min (g/kg)	Max (g/kg)
Protein	350	
Moisture		120
Fat	25	75
Fibre		150
Calcium		10
Phosphorus	3	

50 kg packaging.

Recommendations:

For different uses and mixing ratios, contact your Nutri Feeds technical adviser.

6331 Nutrimol

(V-IN PROCESS; NFF 3926)

Class: Energy supplement.

Nutrimol is a tasty energy supplement for ruminants, horses and game,

- Because of its high molasses content it is ideal for further mixing with farm-produced raw materials with a high protein value in a variety of rations for sheep, cattle and dairy cows;
- It can be used effectively to replace a part of the grain in final rations;
- The nutritional value compares well with that of molasses meal and it can be used effectively as a molasses replacement.

In cattle feedlots up to 25% and in sheep feedlots up to 15% **Nutrimol** can be included in rations as a flavouring and to limit dust.

Composition	Min (g/kg)	Max (g/kg)
Protein	40	
Moisture		160
Fat	10	
Fibre		350
Calcium		12
Phosphorus	1	

40 kg packaging.

Notes

6205 Grainmix (V-IN PROCESS; NFF 3924)

Class: Concentrate ruminant feed (NPN free).

- **Grainmix** is an NPN-free energy concentrate for ruminants, with a protein content of 80 g/kg, and comparable to grain;
- No further mixing is required;
- Feed as an energy supplement at 1% of body mass per day after an adaptation period of 7 to 14 days;
- The product can also be mixed into feed as prescribed by a qualified nutritionist.

Composition	Min (g/kg)	Max (g/kg)
Protein	80	120
Moisture		120
Fat	10	75
Fibre		150
Calcium	1.5	5
Phosphorus	1	

50 kg packaging.

Notes

6204 Enermix
(V-IN PROCESS; NFF 3923)

Class: Concentrate ruminant feed (NPN free).

- Enermix is an NPN-free energy concentrate for ruminants, with a protein content of 1 000 g/kg;
- It has a positive Ca:P ratio that makes it possible to use it as a replacement for grain, as it corrects the limitations of grain;
- Feed as is as an energy supplement at 1% of body mass per day after an adaptation period of 10 to 14 days;
- The product is ideal for mixing in consultation with a qualified nutritionist.

Composition	Min (g/kg)	Max (g/kg)
Protein	100	120
Moisture		120
Fat	25	70
Fibre	60	150
Calcium		20
Phosphorus	3	

50 kg packaging.

Notes

6203 Lucerne Pellets (V 28744; NFF 3725)

Class: Drought feed for ruminants, ostriches, horses and game.

- Lucerne Pellets are ideal for ruminants but can also comfortably be used for game, horses and even ostriches;
- They offer the user a wide range of applications;
- No further mixing is required and they are fed *ad lib.*;
- They should not be fed for long periods to late-pregnancy animals or at high levels to rams and wethers;
- They are available as pellets for ease of use and minimum wastage.

Composition	Min (g/kg)	Max (g/kg)
Protein	100	
Moisture		120
Fat	15	70
Fibre	120	250
Calcium		15
Phosphorus	3	

50 kg packaging.

See NPN Warning on page 102.

Notes

NUTRI FEEDS

The Formula for Success

Nutri products for game

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Nutri products for game

6500 Nutri Game Maintenance (V 28072; NFF 3422)

Class: Complete maintenance feed for herbivorous game.

- **Nutri Game Maintenance** contains 10% natural protein and is completely free of NPN sources;
- The product is suitable for maintaining any type of ruminant game at maintenance levels during drought or in times of feed scarcity, as experienced in the dry season;
- It limits the loss in mass in order to maintain condition and therefore reproduction;
- The product is available in pellet form for ease of use and to limit wastage and trampling;
- The product contains biotin (vitamin H) at a minimum inclusion of 0.36 mg/kg.

Recommended daily intake and feeding instructions:

For maintenance the daily quantity should be no less than 1.5% of the live body mass of the relevant species. The feed can also be provided *ad lib.* to grazing game. Feed together with available foliage, grazing or roughage.

Intake guidelines for herbivore game are as follows:

Type of animal	Intake as % of body mass
Large animal	1.4 – 2.4
Medium-sized animal	2 – 2.6
Small animal	2.6 – 3.5
Very small animal	4 – 6

Composition	Min (g/kg)	Max (g/kg)
Protein	100	120
Moisture		120
Fat	25	70
Fibre	60	150
Calcium		20
Phosphorus	3	
Vitamin	Min (mg/kg)	Max (mg/kg)
Biotin	0.36	

50 kg packaging.

6503 Nutri Game Production (V 28071; NFF 3423)

Class: Full production feed for herbivore game.

- **Nutri Game Production** contains 15% natural protein and is completely free of NPN sources;
- The product is suitable for the production of any type of ruminant game, for example for preparing game for auctions, improving the condition of game and stimulating reproduction;
- It supports the growth and development of young animals;
- The product is available in pellet form for ease of use and to limit wastage and trampling;
- The product contains biotin (vitamin H) at a minimum inclusion of 0.36 mg/kg.

Recommended daily intake and feeding instructions:

For production purposes the daily quantity should be no less than 2.5% of the live body mass of the relevant species. The feed can also be provided *ad lib.* to grazing game. Feed together with available foliage, grazing or roughage.

Intake guidelines for herbivore game are as follows:

Type of animal	Intake as % of body mass
Large animal	1.4 – 2.4
Medium-sized animal	2 – 2.6
Small animal	2.6 – 3.5
Very small animal	4 – 6

Composition	Min (g/kg)	Max (g/kg)
Protein	150	
Moisture		120
Fat	25	70
Fibre	120	200
Calcium	8	12
Phosphorus	4	
Vitamin	Min (mg/kg)	Max (mg/kg)
Biotin	0.36	

50 kg packaging.

6416 Nutri Lick Game 18

(V 28326; NFF 3424)

Class: Protein, mineral and trace-mineral supplement for ruminant game.

- **Nutri Lick Game 18** is a lick with 18% protein, a maximum part of which is supplied from NPN sources. It is therefore suitable for ruminant game;
- It must be supplied to ruminant game as a lick, with adequate roughage, hay or foliage being available ad lib.
- In addition to protein, the product provides supplementary energy and trace minerals to support long-term production success of game;
- The product contains biotin (vitamin H) at a minimum inclusion of 0.72 mg/kg;
- It is a lick and must be fed strictly according to recommendations.

Recommended daily intake and feeding instructions:

This animal feed contains a source of NPN and should therefore be fed strictly according to instructions. Feed together with available foliage, grazing or roughage.

Type of animal	Recommended intake (g/day)
Small game:	190 – 680
Big game:	500 – 1 600

Composition	Min (g/kg)	Max (g/kg)
Protein	180	
Urea		26.50
Other NPN sources		10
Total protein from NPN		45.72%
Calcium	10	20
Phosphorus	6	
Magnesium	3	
Potassium	14	
Sulphur	3	
Energy (estimated) MJ ME/g	8	
Trace minerals and vitamins	Min (mg/kg)	Max (mg/kg)
Copper	40	
Manganese	80	
Zinc	120	
Iodine	2	
Iron	200	
Selenium	1	
Cobalt	1	
Biotin	0.72	

40 kg packaging.



The Formula for Success

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