

# NUTRI FEEDS

*The Formula for Success*

## Nutri Lick range

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## Nutri Lick range

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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**

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## 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**

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## 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			95.4%
NPN			
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

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

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

### Notes

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**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.





## 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

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## 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**

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## 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**

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## 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)		
<b>Cattle</b>	500 – 1 000	635 – 1 600
<b>Sheep</b>		105 – 300

**50 kg packaging.** See NPN Warning on page 95.

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

## 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
<b>Concentrate 80 Kg</b>	600	600	500	250
Salt (kg)	400	400	400	200
*Grain(kg)			400	600
<b>Nutri Fos 12 (kg)</b>	0	100	100	50
<b>Total (kg)</b>	<b>1 000</b>	<b>1 100</b>	<b>1 400</b>	<b>1 100</b>
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)



## 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
<b>Nutri Lick Concentrate 4-1-5</b>	200	250
Salt	250	250
Urea	50	50
Maize meal, small grains or <b>Enermix</b>	0	500
<b>Total (kg)</b>	<b>500</b>	<b>1 000</b>

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)		
<b>Cattle</b>	375 - 750	670 - 1 500
<b>Sheep</b>		115 - 280

See NPN Warning on page 95.

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

