

4 ESSENTIALS 1 powerful product

— NOW INCLUDES —



GRASS



TURNIP



KALE

SUPALYX® 4in1 with ZINPRO® Performance Minerals

- Stimulates feed intake and gut health
 - Promotes feed efficiency
- Supports antioxidant status
- Supports liveweight gains

SUPALYX[®] 4in1

The Go-To mineral & vitamin supplement for stock health and performance



Oregano - Contains plant essential oils selected for their appetite-stimulating effect



Vitamins – Includes B1 where there is a risk of CCN (cerebrocortical necrosis) & Vitamin B12 to help support good growth rates on cobalt deficient pastures



Minerals and Trace elements - Optimal balance of minerals, vitamins and trace elements to help combat potential deficiencies



ZINPRO[®] Performance Minerals - Contains highly available performance minerals Availa[®] Zinc and Selenium to help optimise growth performance, foot/udder health & immune function



WHY DO WE NEED TO SUPPLEMENT?

Even during periods when additional energy and protein is not required, appropriate mineral and vitamin supplementation is often still vital to optimise health and performance, helping stock to reach those all-important targets.

In the UK, mineral levels in grazing vary considerably depending on soil type, soil pH, sward composition and weather conditions. However overall levels are often low and fail to meet requirements for sheep and cattle, particularly for trace elements including cobalt, iodine and selenium.



PLANT EXTRACTS

In recent years, an increasing amount of research has demonstrated the benefits of plant extracts, including essential oils, for improving animal performance and health. Essential oils, including oregano, contain bio-active compounds which have anti-inflammatory and anti-oxidant properties¹, therefore support the immune system through periods of disease challenge and stress. They also support growth performance by shifting rumen fermentation to improve nutrient utilisation² and feed efficiency.

4 in 1 contains a specific blend of essential oils including oregano, ginger, rosemary and thyme. These are known to support health and performance:

- Stimulate feed intake and gut health
- Support average daily liveweight gains
- Promote feed efficiency
- Support anti-oxidant systems and immune functioning
- Reduce the effect of pathogen stress



FORAGE CROPS – EXTRA CONSIDERATIONS

Forage crops including brassica species and fodder beet are very good sources of highly digestible energy and protein and are an excellent way to bridge the forage gap over the winter months. However, these crops are generally low in trace elements and also contain anti-nutritional compounds which prevent mineral utilisation.

Appropriate mineral supplementation is essential for stock grazing these crops.



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VITAMINS

What are vitamins?

Organic compounds required in very small amounts for normal growth and metabolism

Vitamins (A, D3 & E) are essential for ruminants, as they cannot be synthesised by the rumen microbes.

VITAMIN A

- Required for normal vision, growth and reproduction
- Cereals are poor sources and levels in forage decline with storage

VITAMIN D₃

- Required for calcium and phosphorus absorption
- Promotes bone growth and mineralisation
- Regulates the immune system
- Requirements highest in young, pregnant and lactating animals

VITAMIN E

- Works alongside selenium as an anti-oxidant
- Vital for normal immune responses and fertility
- Levels decline with plant/sward maturity

In certain conditions, vitamins B1 and B12 can also become essential for sheep.





VITAMIN B1

Required for....

Energy metabolism and nervous system function



Deficiency can occur in...

Newly weaned stock on summer grazing

-  High demand for growth
-  Limited synthesis in the body as the rumen is not fully developed
-  Ewes after movement to lush pasture
-  Drop in rumen pH destroys vitamin B1

Deficiency causes...

CCN (cerebrocortical necrosis)

-  Isolation
-  Nervous signs – circling movements, ‘stargazing’ and muscle tremors





VITAMIN B12

Required for....

Energy metabolism and formation of red blood cells







Deficiency can occur in...

Newly weaned stock on summer grazing

-  High demand for growth
-  Limited synthesis in the body as the rumen is not fully developed
-  Summer grazing is low in cobalt (required for the production of vitamin B12)
-  Parasitic challenge can reduce absorption

Deficiency causes...

Pine

-  Loss of appetite
-  Poor growth rates
-  Poor hair/wool quality
-  Anaemia
-  Increased susceptibility to other conditions
-  Huge impact on flock profitability

Minerals & Trace Elements

SUPALYX® 4 in 1 contains the full package of essential minerals and trace elements required to help optimise the health and performance of grazing stock and ensure that requirements are met, 365 days of the year.

	Required for	Deficiency
Magnesium	Muscle contraction, nervous system function, regulation of blood calcium levels	Mild deficiency – reduced feed intake and increased risk of milk fever, difficult lambings/calvings and poor lamb/calf vigour. Severe (clinical) deficiency – grass staggers
Phosphorus	Bone formation, energy metabolism, rumen function	Reduced feed intake, skeletal abnormalities, poor hair/wool quality, stiffness, pica
Iodine	Formation of thyroid hormones which control energy metabolism & metabolic rate	Widespread effects, most common signs include poor fertility, stillbirths & weak newborns
Cobalt	Production of vitamin B ₁₂ by the rumen microbes. Important for energy metabolism and growth	‘Pine’ – poor growth, hair/wool quality, anemia & general poor performance
Selenium	Antioxidant working alongside vitamin E. Vital for normal immune functioning. Also required for thyroid hormone activation (interaction with iodine)	Increased incidence of infections, poor fertility, poor muscle integrity (white muscle disease in lambs/calves)
Zinc	Required for almost every process in the body. Particularly important for foot and skin health, wound healing & the immune system	Increased risk of infections, reduced appetite, skin/foot lesions, poor growth and fertility
Manganese	Enzyme activator – important for formation of bone and connective tissues and fertility	Poor growth and fertility, skeletal abnormalities

ZINPRO® Performance Minerals

SUPALYX® 4 in 1 now includes ZINPRO® Performance Minerals Availa® Zinc and Selenium, proven to support health and performance for long-term productivity



- ✓ Availa® minerals offer superior bioavailability³ due to their unique, highly stable structure. Availa® minerals by-pass both the rumen and abomasum, being actively absorbed in the small intestine
- ✓ Availa® Zinc has been shown to enhance development of the gastrointestinal tract in weaned lambs and significantly improve average daily gain, feed intake and feed efficiency⁴
- ✓ Ewes produced more milk when supplemented with Availa® Zinc during the first four weeks of lactation, benefiting lamb growth and weaning weights⁵
- ✓ Supplementing ewes with Availa® Selenium during late pregnancy and early lactation has been shown to significantly elevate milk selenium levels and support lamb birthweights⁶
- ✓ Availa® Selenium has been shown to enhance feed efficiency and support the immune system of weaned lambs during stress periods⁷



References

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22.5
kg

SUPALYX® 4 in 1

A high specification mineral, vitamin and trace element lick containing natural plant extracts and ZINPRO® Performance Minerals to help support optimal performance of sheep and cattle and complement deficiencies often found in grazing and forage crops.



Features & benefits:

- Contains plant essential oils selected for their appetite-stimulating effect.
- Contains highly available performance minerals Availa® Zinc and Selenium to help optimise growth performance, foot/udder health & immune function.
- Essential minerals, vitamins and trace elements to help balance potential deficiencies in grazing and forage crops and brassica.
- Includes vitamin B1 for where there is a risk of CCN (cerebrocortical necrosis).
- Vitamin B12 to help support good growth rates on cobalt deficient pastures.
- Available in 22.5kg pack size.

Ideal for:

- Grazing sheep and cattle throughout summer.
- Sheep and cattle grazing forage crops at any time of year.
- Growing lambs on grazing or forage crops where mineral and vitamin supplementation is required.
- Housed or grazing stock under stress.

User guide:

- Offer free-access at a ratio of one 22.5kg bucket per 35 head of sheep or 15 head of cattle.
- Ensure ad-lib forage is always available.

Typical intakes:

- Cattle up to 150g/head/day#.
- Sheep up to 30g/head/day#.

* Consumption will be influenced by number of feed points per head of stock, forage availability and quality, other feeds available, age and breed of stock and proximity to water sources.

Product specification:

Typical sugar (as sucrose) %	22
Calcium %	8
Phosphorus %	2
Magnesium %	6.5
Sodium %	7
Selenium* mg/kg	25
Cobalt mg/kg	25
Iodine mg/kg	250
Manganese mg/kg	3,000
Zinc** mg/kg	4,000
Vitamin A iu/kg	200,000
Vitamin D ₃ iu/kg	40,000
Vitamin E iu/kg	500
Vitamin B ₁ mg/kg	200
Vitamin B ₁₂ mcg/kg	1,000

* includes Availa® Selenium.

** includes Availa® Zinc.

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Spec number 2.8

