



Grassmins

FREE ACCESS MINERALS FOR SUPPLEMENTING GRASS

| Product Code | Product Name | % Ca | % P | % Na | % Mg | mg/kg Cu | mg/kg Co | mg/kg Mn | mg/kg Zn | mg/kg I | mg/kg Se |
|--------------|-------------------------|------|-----|------|------|----------|----------|----------|----------|---------|----------|
| 530200 | Grass 1 - Hiphos | 15 | 7 | 12 | 5 | 3000 | 200 | 6000 | 7000 | 300 | 35 |
| 530100 | Grass 2 - Himag | 9 | 3 | 12 | 17 | 3000 | 200 | 6000 | 7000 | 300 | 35 |
| 530400 | Grass 3 - Beef | 18 | - | 18 | 3 | 3000 | 200 | 6000 | 4000 | 300 | 30 |
| 530300 | Grass 4 - Magphos | 13 | 5 | 11 | 10 | 3000 | 200 | 6000 | 7000 | 300 | 35 |
| 534000 | Grass 5 - Econobeef | 20 | - | 16 | 3 | 3000 | 200 | 6000 | 2400 | 100 | 30 |
| 533700 | Grass 6 - Drycow | 5 | 5 | 15 | 10 | 3000 | 200 | 6000 | 7000 | 500 | 35 |
| 530500 | Grass 7 - Sheep | 11 | 6 | 12 | 10 | 3000 | 200 | 6000 | 6000 | 300 | 30 |
| 533750 | Grass 8 - Drycow Ultra* | 5 | 5 | 15 | 10 | 3000 | 200 | 6000 | 7000 | 500 | 35 |
| 531000 | Grass 10 - Superphos** | 14 | 7 | 12 | 5 | 3000 | 200 | 6000 | 7000 | 300 | 35 |

* Drycow Ultra contains chelated Trace elements
 ** Superphos contains chelated Trace elements



Features

- **Balanced Trace Element levels**
- **No vitamin supplementation**
- **Lower Phosphorus levels**
- **Balanced Major Elements (Ca, P, Mg etc)**
- **Palatability by design (Flavour & Salt)**
- **Norvite high quality weatherproofing**

Benefits

- Supplements low levels in grazed pasture
- Improved grass utilisation
- Improved live weight gain
- Improved fertility
- Improved health and immunity
- Adequate supply available from pasture
- Value for money
- Lower environmental impact
- Value for money
- Designed to meet a wide range of needs
- Ensures consistent adequate intakes
- Less wastage and losses due to weather.

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| Sample Details | | | |
|-----------------|--------------|----------------|------------|
| Lab Reference : | 16399 | Date Printed : | Date Cut : |
| Sample Type : | SILAGE | Additive : | Contact : |
| Description : | GRASS SILAGE | Company : | Cut No : 1 |

| Macro Minerals (%) | Analysis | Low | Standard | High |
|--------------------|----------|------|----------|------|
| Phosphorus (P) | 0.29 | 0.20 | 0.45 | 0.60 |
| Magnesium (Mg) | 0.18 | 0.15 | 0.25 | 0.50 |
| Calcium (Ca) | 0.51 | 0.30 | 0.65 | 1.00 |
| Sodium (Na) | 0.24 | 0.10 | 0.30 | 0.45 |
| Potassium (K) | 2.67 | 0.75 | 2.50 | 4.00 |
| Chloride (Cl) | 0.96 | 0.40 | 1.00 | 1.70 |
| DCAB (meq/kg) | 392 | 150 | 400 | 700 |

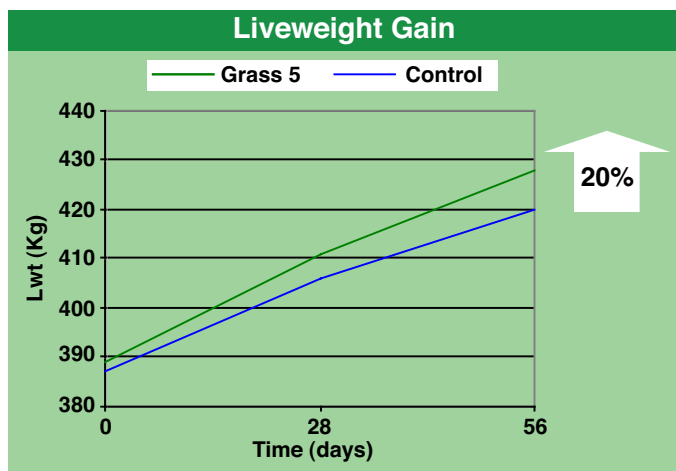
| Micro Minerals (mg/kg) | Analysis | Low | Standard | High |
|------------------------------|----------|------|----------|-------|
| Manganese (Mn) | 150.0 | 80.0 | 160.0 | 240.0 |
| Copper (Cu) | 5.8 | 6.0 | 12.0 | 18.0 |
| Copper Bio-Availability (Cu) | 4.5 | 6.0 | 12.0 | 18.0 |
| Zinc (Zn) | 26.9 | 50.0 | 100.0 | 150.0 |
| Selenium (Se) | 0.10 | 0.10 | 0.15 | 0.20 |
| Cobalt (Co) | 0.14 | 0.15 | 0.30 | 0.60 |
| Iodine (I) | 0.45 | 0.20 | 1.00 | 2.00 |

| Antagonists | Analysis | Low | Standard | High |
|------------------------|----------|------|----------|------|
| Iron (Fe)(mg/kg) | 289 | 75 | 175 | 600 |
| Aluminium (Al)(mg/kg) | 146 | 50 | 150 | 350 |
| Molybdenum (Mo)(mg/kg) | 1.47 | 0.25 | 2.00 | 5.00 |
| Sulphur (S)(%) | 0.2 | 0.1 | 0.3 | 0.5 |
| Lead (Pb)(mg/kg) | 0.3 | 0.5 | 1.5 | 3.0 |

This forage mineral analysis represents the mean of all grass samples from the north of Scotland in one season. Trace element levels are very low. This is compounded by high antagonists which further reduce availability. Supplementation of grazing is essential to avoid deficiency and improve animal health and performance.

Free Access Mineral Supplementation for Grazing Cattle Trial Commissioned by Norvite at the Scottish Agricultural College

| DLWG (Kg) | Control | Grass 5 | Change |
|----------------|-------------|-------------|-------------|
| 0-28 days | 0.68 | 0.78 | 0.10 |
| 29-56 days | 0.50 | 0.61 | 0.11 |
| Overall | 0.59 | 0.70 | 0.11 |



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