

# Origin *Seleni*start and *Seleni*grass

## Simple Selenium Supplementation

### What are *Seleni*start and *Seleni*grass?

*Seleni*start and *Seleni*grass are grassland fertilisers enriched with granular Selenium specifically formulated to raise Selenium in pasture and forage to optimum levels for livestock health.

### Why use *Seleni*start and *Seleni*grass?

- ✓ Selenium is essential for animal health
- ✓ Selenium deficiency is linked to infertility, retained placentas, poor LWG and a wide range of sub-clinical symptoms
- ✓ 90% of UK soils are deficient in Selenium
- ✓ Pasture and silage typically contains only 10-20% of the Selenium levels required by livestock
- ✓ Trials in the UK and Ireland have proved that *Seleni*start and *Seleni*grass can elevate and sustain Selenium levels in pasture, forage and animal bloods for optimal health and performance

#### Product range

<i>Seleni</i> start	42.0.0 + 5% SO <sub>3</sub> + Se
<i>Seleni</i> grass	25.3.3 + Se
	25.0.0 + 5% SO <sub>3</sub> + Se
	20.4.13 + 5% SO <sub>3</sub> + Se



### Product recommendations

Situation	Timing	Rate
Early grazing	<i>Seleni</i> start 42.0.0 + 5 SO <sub>3</sub> + Se is ideal for early application, particularly in colder conditions. Apply 6 – 8 weeks before turn-out.	125 – 190 kg/ha (1 - 1½ cwt/acre)
Rotational grazing	Apply <i>Seleni</i> grass 25.3.3 + Se for each grazing cycle to the required N rate. Alternatively, use <i>Seleni</i> grass 25.0.0 + 5 SO <sub>3</sub> + Se where high levels of slurry are being applied or soil P and K status is high.	190 – 250 kg/ha (1½ - 2 cwt/acre)
Aftermath grazing	Apply <i>Seleni</i> grass 25.3.3 + Se or 25.0.0 + 5 SO <sub>3</sub> directly after cutting for rapid re-growth.	190 – 250 kg/ha (1½ - 2 cwt/acre)
Silage	Apply <i>Seleni</i> grass 20.4.13 + 5 SO <sub>3</sub> + Se 6 – 8 weeks before cutting.	500 – 625 kg/ha (4 – 5 cwt/acre)

# Selenium – an essential livestock nutrient

## 1. Selenium and livestock:

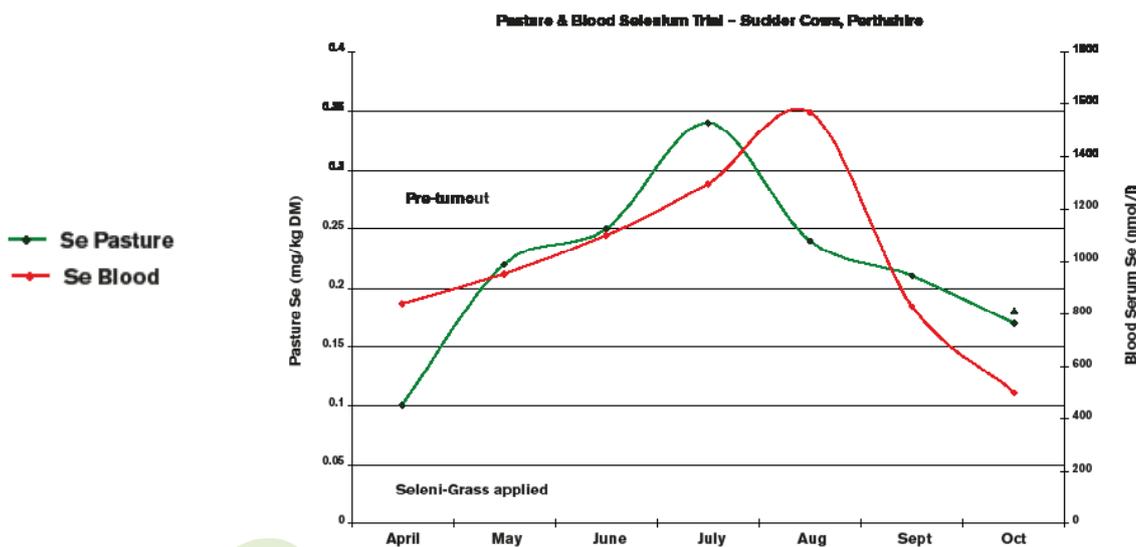
Selenium is an essential nutrient for livestock health and performance. Selenium deficiency can lead to potentially serious clinical disorders and production loss:

- ✗ Infertility
- ✗ Retained placenta
- ✗ White muscle disease
- ✗ Ill-thrift, poor LWG and a range of auto-immune disorders

## 2. Selenium and grass:

- ✓ Although grass does not need Selenium, it does take it up from the soil
- ✓ 90% of UK soils are deficient in Selenium which is reflected in very low levels in grass
- ✓ Adding granular Selenium to fertiliser elevates the Selenium level in pasture and forage which is reflected in higher blood Selenium levels
- ✓ Higher levels of Selenium can be provided in the base diet throughout the year, enabling a reduction or elimination of other, more expensive forms of supplementation

Trials in the UK and Ireland have proved the efficacy of **Selenistart** and **Selenigrass** with improvements in fertility, less retained cleanings and higher LWG.



## 3. Selenium in fertilisers:

Applying Selenium in fertilisers such as **Selenistart** and **Selenigrass**:

- ✓ is simple and does not involve additional work
- ✓ is cost effective compared to other forms of supplementation (c. 2p per head per day)
- ✓ does not involve animal handling
- ✓ helps improve residual soil Selenium levels

Advanced nutrition for enhanced performance

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