



# Nutribio Newsletter

SPRING 2008

## PRODUCTS TO LOOK OUT FOR IN SPRING 2008

- **FlowMag and FlowTrace Ranges**
- **Nutribio Hi-Mag**
- **Nutribio Fertility Buffer**
- **Calf-Beef Block with Vitamin B1**
- **Nutribio Horse Block and Mineral**
- **Protect Mobility Sports Horse Block**
- **Moss Remover**

## FlowMag - The Ultimate Magnesium Solution

Grass Tetany season is upon us once again. Nutribio have the ultimate magnesium solution in our FlowMag liquid magnesium range. The range includes two products, 1) FlowMag (I&Se) and 2) FlowMag Fertility plus Trace Elements which contains a full complement of trace elements to aid in the prevention of deficiencies that can lead to: **Infertility, Mastitis, Poor Thrive, Reduced Milk Yield, Retained Placenta, Hoof Problems and White Muscle Disease**

+ Trace Elements Liquid Magnesium for the last 2 years and are extremely satisfied with the results on their farm:

- **Reduced Somatic Cell Count Levels**
- **Reduced Levels of Mastitis and Lameness**
- **Increased Conception Rates**
- **Grass Tetany eliminated**
- **Labour saving - only takes 5 minutes a day**

*"If you want to be assured that your animals are receiving their required daily levels of magnesium and trace elements, we would highly recommend the FlowMag Liquid Magnesium System."*



Keep your cows healthy this Spring from only 23c per/head/day

The Results speak for themselves

Anne and David Moore milk 150 cows on their farm in Middleton, Co Cork and have been using FlowMag Fertility

Product Range	RDA (ml)	Mg %	Se mg/l	Iodine mg/l	Cobalt mg/l	Zinc mg/l	Copper mg/l
FlowMag +Iodine&Selenium	300-400	5	20	275	0	0	0
FlowMag Fertility +Trace elements	300-400	5	20	275	25	1050	1400

## Nutribio's Magnesium Solutions Range



Nutribio have the perfect Magnesium Supplement to suit your herds needs this Spring.



(for further details on Nutribio's Magnesium range please ask in-store for details or contact Nutribio directly on 00 353 21 4507303)



**William Harty of Clarina, Co Limerick**

**One 25Ltr drum of FlowTrace 2, 4, 6 or 6++ will provide 750 feeds (Dilute 1:10) FlowTrace Cu, I, Se or Zn will provide 3,000 feeds (Dilute 1:40)**

# FLOWTRACE - trace element range

The FlowTrace range from Nutribio is a range of liquid trace element supplements that can be supplied via the drinking trough using either a proportioner pump or a dispenser drum. The FlowTrace product range is an extremely flexible method of providing your animal with either single or a compliment of trace elements to suit their specific requirements. (see table below for full product details)

**The FlowTrace range is available in 25 litre drums and can be supplied to both cattle and dairy cows at all times of the year.** It is especially suited to the grazing herd where compound feed is reduced or has ceased.

## The Results speak for themselves

**William Harty of Clarina, Co Limerick is a satisfied customer of FlowTrace 6 ++ (which in addition to containing a full compliment of trace elements also contains protected Copper and Zinc)**

“My herd is 100% spring calving and in 2007 I had 17 cows not in calf and with extra quota to fill resulted in having to purchase COWS.

I discussed this with my vet and it was decided a blood test should be taken, this returned results low in selenium, copper and iodine.

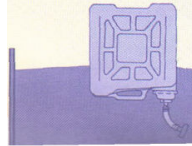
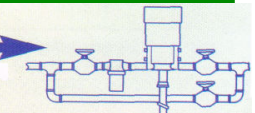
My advisor suggested that I should try Nutribio’s FlowTrace 6++ as I would not be supplementing with concentrates for the majority of the grazing season.

We fed this through the water with the proportioner at full rate during the breeding season and at half rate up to September increasing to full rate for two months before drying off.”

**“The results for the calving season in 2008 is 5 cows not in calf out of 105 cows a major improvement. It will remain a part of my management programme**

**“There’s a FlowTrace product to suit your herds needs”**

**PROPORTIONER**  
On line metering pump treating all troughs on line



**DISPENSER DRUM**  
Single trough, daily dose

Name	RDA Postcalver	RDA Precalver	Iodine mg/l	Se mg/l	Zinc mg/l	Copper mg/l	Mg mg/l	Cobalt mg/l	Cost hd/day
<b>FLOWTRACE 2</b>	400	250	2750	225					6c
<b>FLOWTRACE 4</b>	400	250	2000	150		12500		300	11c
<b>FLOWTRACE 6</b>	400	250	2000	150	12500	12500	1250	300	14c
<b>FLOWTRACE 6++</b>	400	250	2000	150	12500 (10% Protected)	12500 (10% Protected)	1250	300	16c
<b>FLOWTRACE COPPER</b>	310	310				52000			4c
<b>FLOWTRACE IODINE</b>	310	310	8200						2c
<b>FLOWTRACE SELENIUM</b>	310	310		650					2c
<b>FLOWTRACE ZINC</b>	310	310			52000				4c

**Nutribio Calf Beef Block with Vitamin B1 and Garlic**  
Help prevent your herd contracting CCN and help to keep off the flies with Nutribio’s Calf/Beef Block with Vitamin B1 and Garlic

## Nutribio Hi-Mag Block, TMR G and Fertility Buffer

### Nutribio Hi-Mag Block

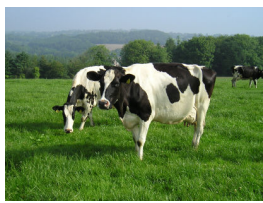
Nutribio Hi-Mag Block has been formulated for use with dairy and beef cows during the grazing season when there is a risk of grass tetany.

It contains magnesium in a highly palatable form which helps to ensure adequate intakes and contains high levels of both Zinc and Copper to aid fertility and boost the immune system.

### Nutribio Fertility Buffer

Nutribio Fertility Buffer Mineral has been formulated for buffer feeding with grass or corn

silages at grass. The mineral supplies magnesium to aid in the prevention of grass tetany. It also contains chelated Copper and Zinc to enhance fertility.



### Nutribio TMR G

TMR G is a specialty liquid feed preservative which contains Glucose precursors which help increase the energy

level of the TMR mix in addition to preserving the mix for up to 3 days. Allowing you to prepare your TMR mix just twice a week.

### The benefits of using TMR G include:

- Increased feed intakes
- Reduction on the risk of Ketosis
- Helps prevent the growth of moulds and yeasts.
- Strabilises the temperature of the mix.

TMR G is available in 210 litre barrels with a recommended usage rate of 3 litres per tonne

# Protect Mobility— Sports Horse Block

Nutribio are proud to announce the launch of the newest addition to our already successful horse mineral range, **Protect Mobility (Sports Horse) Block**. This new horse block has been formulated to meet the needs of today's Sports horse in line with NRC guidelines.

In addition to offering the complete mineral and vitamin solution to your sports horse the block also contains a number of unique key ingredients that help keep your horse in peak condition,

protecting supple joints and enhancing mobility.



**These key ingredients include, MSM, Glucosamine and Chondroitin Sulphate.**

These ingredients work in

conjunction with one another to repair and regenerate damaged cartilage, act as an anti-inflammatory aid, help prevent the onset of osteoarthritis and help to build stronger joints.

The inclusion of yeast in the block also acts as an **aid in the prevention of Hind Gut Dysfunction.**

The block is suitable for use with all Sports/Event horses.



## Nutribio Horse Block

Nutribio Horse Block is a highly palatable mineral vitamin and trace element supplement, it contains a comprehensive range of vital vitamins and minerals that form part of a healthy horses diet.

The block is designed to be fed to all types of horses in light to medium work and to unsupplemented mares and young stock on pasture alone.

It is particularly suited to horses on pasture as they can face a serious dietary problem.

Research has shown that from the first week in June, there is a dramatic fall in copper and zinc levels in grass. When a block is made available to the horses at this time the consumption of it increases five fold.

The block contains Vitamins, A,D, E, B1, B2, B6, B12 and K and also the all important Biotin and Folic Acid. It also contains the following minerals, Calcium, Phosphorus, Magnesium, Sodium, Copper, Iodine, Selenium, Manganese, Zinc and Cobalt.

You should allow 1 x 12kg block per 5 x 500kg animals in a 20 day period.

**Nutribio Horse Mineral** contains the same ingredients as the Nutribio horse block in a powdered form and is suitable for use in home-mix cereal based diets.



Look after your lawn this Spring with **Nutribio's Moss Remover (contains ferrous sulphate).**

(ask in-store for details)

Usage 30g per sq/m in a litre of warm water

## Nutribio's Agri Corner - Fertility

The following information about signs of heat was presented at a conference by a farmer. The average mount lasted 7 seconds and any cow had between 5 and 140 mounts per heat. If one man looks after 150 cows and works a 10 hour day he has 4 minutes per cow per day. A cow on heat will show signs of heat for about 4 minutes, the chances of the four minutes attention a cow gets

coinciding with the four minutes she shows signs must be very small. This is made worse by 70% of bulling signs showing between 6pm and 6am. If your last observation is at 8pm then you will see 46% that come into heat, if that observation is 10pm then 54% are seen. It is impractical to rely solely on observation. A report from the 'Hoards Dairyman'(a USA publication for farmers) shows

how much milk yield influences the duration of standing heat. Cows yielding 30 litres had heats lasting an average of 15 hours, at 50 litres this dropped to 5 hours and at 56 litres it was only 3 hours. With increasing milk yields, labour availability there is less time available for heat detection. Use of tail paint is a good short term solution and probably the best aid is a vasectomised bull.

At turn out management is critical with getting cows back in calf. It is important that the dry matter intake is adequate for not only the average yield but the 40% to 50% milking greater than average. If dry matter intake is not being achieved then live weight loss will increase milk lactose figures will fall indicating low energy intake. The milk lactose figure should average 4.7% in the first 100 days, 4.6% for the second 100 and 4.5% for the last 100 days. A drop of 0.5% in lactose is large so this can be used as a management tool.

## Why supplement with Selenium and Iodine at grass?

**Table 1** outlines the range of results for selenium and iodine, which Nutribio received following numerous grass sample analysis taken in 2007-2008 (which can be interpreted as being the same for the grazing sward).

<b>Table1:</b>	<b>Range</b>	<b>V. Low</b>	<b>Low</b>	<b>Mean</b>	<b>High</b>	
Selenium -mg/ kg	0.01 - 0.1	0.0 - 0.05	0.06 - 0.1	0.11 - 0.3	0.31 - 2.0	
Iodine - mg/ kg	0.29 - 0.81	0.0 - 0.05	0.06 - 0.1	0.11 - 0.2	0.21 - 1.0	
<b>Cow's DMI - 17 kgs</b>	<b>mg/ day</b>	<b>EU.-Allowed</b>	<b>% of EU.</b>			
Selenium intake @ 0.01 mg/ kg	0.17	9.00	1.90			
Selenium intake @ 0.1 mg/ kg	1.70	9.00	19.00			
Iodine intake @ 0.29 mg/ kg	4.90	110.00	4.45			
Iodine intake @ 0.89 mg/ kg	13.81	110.00	12.55			

**Table 2** outlines the selenium and iodine intake and their EU allowances. As can also be seen from **Table 2** the intake for selenium is short by 81%-98% and for iodine 87% to 96%.

### Iodine

The following should also be taken into consideration in relation to Iodine.

- Seasonal decline in iodine concentrations.
- Advancing maturity of the sward 4-5 fold reduction.
- Nitrogenous fertilisers – increase grass growth reduction in uptake.
- Stage of lactation – reduction with increase in days in milk
- Intestinal parasite infection – reduction in absorption from the intestine
- Supply of other **trace elements in particular selenium**

**The end result of low levels of iodine and selenium is foetal reabsorption in the grazing season.**

### Selenium

Selenium role's is critical in the converting the iodine stored as T4 (it's inactive form), in the thyroid to circulatory iodine T3 (it's active form). As can be seen from Table 2 it is at maximum 5% of requirements. Some farmers will be supplementing but this could vary from 1 to 4 kgs/cow/day, the compounder will be formulating for the higher level of feeding so a farmer feeding 1kg will be getting 25% of what is included at a 4kg maximum feeding rate. For the majority of farmers no supplementation will take place.

**Selenium and iodine need to be fed/supplemented together as the availability of one is dependent on the other. This is critical during the breeding season and the last 100 days of the lactation to raise base levels before drying off. Nutribio have the solution with our Flowtrace product range.**

**Nutribio are the only company with protected copper and zinc available in our 'Flowtrace Range'.**

A profitable approach to animal nutrition



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