



# Alltech® MINERAL MANAGEMENT

## Re-defining mineral nutrition for dairy

Modern animal production needs a modern approach to mineral supplementation.

The Alltech Mineral Management program assures organic trace minerals that are better absorbed, stored and utilised by the animal.

Alltech has proven that modern management of mineral nutrition can be carried out by the inclusion of organic trace minerals in the form of BIOPLEX® and SEL-PLEX® at significantly lower levels than inorganics, while still improving performance. We call this Total Replacement Technology (TRT).

Alltech's Bioplex® range of organic trace minerals provides mineral nutrition in a form as close to nature as possible.

## BIOPLEX® HIGH FIVE

**Organic trace minerals support key facets of animal health and production.**

### Organic trace minerals

- Support fertility
- Assist in reducing mastitis
- Assist in reducing somatic cell count
- Support hoof health
- Support farm profitability

### Why use BIOPLEX® HIGH FIVE?

- Proven extensive trial work
- Optimises mineral absorption, minimises mineral excretion
- Safe, traceable and consistent
- Optimises animal health and performance
- New blend



**Alltech®**

# BIOPLEX® HIGH FIVE

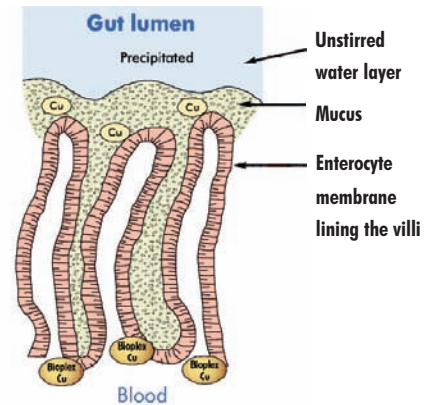


## What is Bioplex® High Five?

Bioplex® High Five is a specific blend of five essential trace minerals zinc, manganese, copper, selenium and cobalt. These trace minerals maintain and support key regulatory and structural functions in the body.

## BIOPLEX®

Bioplex® minerals are trace minerals that are designed in the same form found in plants and are better able to meet the higher nutrient needs of modern livestock raised for rapid growth, maximum reproductive performance and animal health. These organic trace minerals are bound organically to amino acids and a range of peptides. This makes them easily absorbed and readily metabolised, optimising animal performance. Bioplex® minerals pass more easily from the gut lumen through the mucus layer lining the villi and across the gut membrane into the blood stream. They offer higher bioavailability than inorganic minerals and can be used at lower levels of inclusion than inorganic minerals.



## New Blend

Alltech has created a new blend of Bioplex® High Five in line with modern production requirements.

### Usage rates designed for feeding all year round

Mineral Supplied* (mg per cow per day)	Bioplex® High Five (grams per cow per day)*					
	5g	6g	7g	8g	9g	10g
Zinc	360	432	504	576	648	720
Copper	110	132	154	176	198	220
Manganese	100	120	140	160	180	200
Selenium	3	3.6	4.2	4.8	5.4	6
Cobalt	10	12	14	16	18	20

**NEW  
BLEND**

\*Feed in accordance with Australian state regulation

## SEL-PLEX®

Sel-Plex® is Alltech's proprietary organic form of selenium yeast designed to mimic selenium found in nature. It is an excellent source of selenium and is better absorbed, stored and utilised by the animal than inorganic selenium.

## Alltech® Q+™

ALLTECH Q+™ is the quality control program unique to our range of organic trace minerals; it forms an integral part of the ALLTECH QUALITY SYSTEM (AQS). This positive release program guarantees that all incoming batches of raw material sources and final product batches are tested for dioxins, PCBs and heavy metals prior to sale.

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