



## Phibro Animal Health Nutritional Specialty Product Portfolio

### OmniGen®

#### Description

OmniGen® is a combination of all-natural silicates and yeast components, scientifically evaluated and selected by Phibro for specific biological activity.

#### Recent Research

Feeding OmniGen supports/promotes a healthy immune system. Research shows that having a healthy immune system led to the following in dairy cows:

- Decreased days open, improvements in conception rates, and improved embryo quality (Snider et al., 2019; Casaroto et al., 2020).
- Improvement in transition cow health metrics, specifically a 15% decrease in mastitis and lowered SCC (Chapman, 2019).
- Decreased Hemorrhagic Bowel Syndrome issues due to *Aspergillus fumigatus*
- Mitigation of heat stress, observed as increased DMI, increased milk production, decreased respiration rates, decreased rectal temperatures (Hall et al., 2014; Brandao et al., 2016).

### Animate®

#### Description

Animate® Nutritional Specialty Product:

- Palatable: readily consumed without significantly depressing prepartum dry matter intakes, leading to higher postpartum dry matter intakes and, ultimately, increased milk yield.
- Concentrated: one of the most concentrated commercially manufactured anionic products on the market. When fed in a fully acidogenic prepartum diet (urine pH from 5.5 to 6.0), Animate feeding rates are typically half the rate of other anionic products. This allows for more ration space and easier diet formulation
- Complete: uniquely formulated to provide effective levels of chloride and sulfur, plus other key nutrients such as magnesium and phosphorus, which are necessary for a proper negative DCAD diet formulation



## Recent Research

Research using a fully acidogenic, high Ca prepartum diet using Animate as the sole source of supplemental anions showed:

- 2.4 lb/cow/d increase in postpartum DMI, 7.5 lb/cow/d increase in ECM, and a significant decrease in subclinical hypocalcemia in Lactation 3+ cows at 24 and 48 h postpartum (Leno et al., 2016).
- Improved postpartum Ca status in the cow; higher supplemental dietary Ca to a fully-acidogenic prepartum diet increased the amount of Ca excreted in the urine indicating greater Ca mobilization; and lower adverse health score, calculated by assigning a numerical value to each health event (healthier cows; Glossen et al., 2020).
- Decreased days to first ovulation and increased pregnancy at first timed AI (Ryan et al., 2020).
- Increased the size of the available pool of ionizable calcium (Amundson et al., 2018).



## Description

Cellerate Yeast Solutions®, a *Saccharomyces cerevisiae*-based portfolio of products, contains yeast, yeast components, and fermentation metabolites that help through increased ruminal cellulolytic bacteria and greater lactate utilization by specific microbes.

Product portfolio includes:

- Culture Classic fed at 2 oz/cow/d
- Culture Classic HD fed at 0.5 oz/cow/d
- Culture Classic Plus fed at 0.5 oz/cow/d, includes additional mannans and glucans

## Recent Research

Research showed that feeding Cellerate Yeast Solutions products improved the ruminal environment. A healthy ruminal environment led to the following.

- Culture Classic
  - 4.4 lb/cow/d increase in FCM and 0.18 lb/cow/d improvement in fat yield (Holub et al., 2017).
- Culture Classic HD
  - Transition cows = 1.1 lb/cow/d increased DMI, 7 lb/cow/d increase in ECM, and a 0.1 unit improvement in ECM:DMI (Carpinelli et al., 2020).
  - Mid-Lactation Cows = 2.0 lb/cow/d decrease in DMI, 2.4 lb/cow/d increase in ECM, and a 0.12 unit improvement in ECM:DMI (Halfen et al., 2020).
  - Both studies have research that shows changes in specific cellulolytic and fiber digesting bacteria (Carpinelli et al, 2020; Halfen et al., 2020).
- Culture Classic Plus
  - Reduced fecal concentrations of *Escherichia coli* and *Clostridium perfringens*, as well as, lowered prevalence rates of *Salmonella*, and a decreased mortality rate in broilers (Sharman et al., 2019).



## Description

AB20®, a bentonite adsorbent, contains hydrated sodium and calcium aluminosilicates that reduce caking and increase flowability by binding moisture present in feed. Lower moisture in feed reduces the potential for mold growth and lowering mold growth in feed improves its quality. This is important when you consider that some molds can produce a wide range of harmful mycotoxins.

## Recent Research

Has shown that:

- AB20 has the ability to bind multiple mycotoxins to decrease the biological impact when multiple dietary mycotoxins are present (*in-vitro* and *in-vivo* studies; Phibro internal Technical Bulletins 2018 & 2019).
- AB20 has a small particle size that allows the product to bind toxins, but not bind other minerals (Schell et al., 1993; Southern et al., 1994).

# Mineral Nutrition

## GemStone® Organic Trace Minerals

- Cu, Mn, Zn, and Fe sources
- Our organic trace mineral line uses glycine as the ligand in the amino acid chelate and the highest concentrated organic minerals available on the market today, allowing for reduced inclusion and better economic return. The easy-flowing granule improves manufacturing and mixing. Glycine complex is highly soluble, maintaining chelation to the metal ion which improves bioavailability of the mineral.

## Vistore™ Hydrochloride Trace Minerals

- Cu, Mn, and Zn sources
- Our hydrochloride trace mineral line offers improved bioavailability over inorganic trace mineral sources in a highly concentrated formula. Improved manufacturing ensures increased purity and stability over other hydrochloride minerals available to the market.

## Phi-Chrome™ Propionate Tripicolinate

- Available in both 0.4 and 0.04% concentrations
- Our organic forms of chromium are offered in two forms, applicable to all species (propionate) or swine only (tripicolinate). Improved bioavailability ensures adequate absorption of this essential trace mineral.



## A Complete Package for Optimal Herd Health

Services	Dry Cows	Transition Cows	Lactating Cows
Time-lapse video recording and evaluation	✓	✓	✓
Forage & TMR sampling and analysis	✓	✓	✓
Dairy records analysis with expertise in DC305 and PCDART	✓	✓	✓
Phibro Technical Services Manager access, our team of PhD and DVM experts	✓	✓	✓
Dairy industry experts, our partners in providing additional expert insights and analysis	✓	✓	✓
Phibro Stress Assessment for Dairy Cattle	✓	✓	✓
Urine pH Testing		✓	
Blood Calcium Testing		✓	
The Animate® App		✓	

### Experts by Your Side

Your Phibro Dairy Advisor is a well-trained dairy professional and passionate about helping you achieve your goals. They work closely with our seasoned team of dairy PhDs and DVMs and utilize our extensive network of university research partners on a regular basis, all in the interest of bringing you the very best in products, services and solutions for your dairy operation's needs.