Welcome To Ultrateck Laboratories Inc.

Introducing Our New Bio-Yeast and Organic Mineral Yeasts

The Natural Biological Feed Solutions
Animal Health and Performance Through Balanced Nutrition

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O.C.Y. 2000x Organic Chromium Yeast

**Organic Chromium In Sows Performance**

**O.C.Y. 2000x is a spray dried whole cell yeast of** Saccharomyces cerevisiae containing controlled high levels of chromium. The natural yeast fermentation process is supplemented with the necessary levels of chromium. The yeast cream is then pasteurized to prevent contamination and spray dried for the highest quality and purity product of its kind. This process allows the chromium to interact with the yeast cell components and the gentle processing conditions cause a natural chelating effect which preserve the level of highly available essential nutrients.
Numerous Canadian and US University research studies have clearly and effectively demonstrated the benefits in supplementing chromium in animal diets. Some of the benefits are listed below in order to objectively evaluate the need for adding chromium to existing high quality diets.

Increases Litter Size by up to 31%
Graphic Illustration on the Effects of Organic Chromium in Sows

With 1000 Sows

Effects of Organic Chromium on Litter Size in Pigs

Without Chromium
23,000 Piglets

With Chromium
28,000 Piglets

Based on Published US and Canadian University Reports 1995

Potential Benefit
5,000 More Pigs
OSY 2000X Organic Selenium Yeast

Numerous University research studies have clearly and effectively demonstrated increased retention of selenium, when fed in the form of selenium yeast. Researchers have said that the fundamental error had originally been made with the choice of sodium selenite. Sodium selenite is not only a carcinogen, but acts as an oxidant. Recent research work does not question the well known need for Se, rather the form in which should be fed. Results of recent experiments illustrate the value of providing dietary Se in an organic form.

O.S.Y.2000X is a whole cell yeast of saccharomyces cerevisiae product containing controlled high levels of selenium. The natural yeast fermentation process is supplemented with the necessary levels of selenium. The yeast cream is than pasteurized to prevent contamination and spray dried for the highest quality and purity product of its kind. This process allows the selenium to interact with the yeast cell components and the gentle processing conditions cause a natural chelating effect which preserve the level of highly available essential nutrients.

Generally used at 50 to 200 grams per metric ton -2,200 lbs of finished feed
Effects of Organic Selenium Yeast

Birds - Poultry - Turkeys - Ratites

* Reduced drip loss
* Improved broiler breeder fertility
* Improved carcass quality
* Improved feathering
* Less daily feed needed due to improved feather cover
O.Z.Y. 2000X is a spray dried whole cell yeast of saccharomyces cerevisiae containing controlled high levels of zinc. The natural yeast fermentation process is supplemented with the necessary levels of zinc. The yeast cream is then pasteurized to prevent contamination and spray dried for the highest quality and purity product of its kind. This process allows the zinc to interact with the yeast cell components and the gentle processing conditions cause a natural chelating effect which preserve the level of highly available essential nutrients.

Use Rates:
Generally used at 50 to 200 grams per metric ton -2,200 lbs of finished feed
M.O.S.500 Mannan Oligosaccharide

Concentrated MOS Yeast Extract

M.O.S.500: a naturally derived extract from the cell wall of Saccharomyces cerevisiae, is an animal feed ingredient and fermentation additive.

The mannan oligosaccharide content is approximately 55% to 60% of the carbohydrate fraction.

Product Typical Specifications:

- Physical form and color: Non-Hydroscopic
- Particle size (through a 20 mesh screen): 100.0%
- Protein: 30.0%
- Ash: 6.0% max.
- Moisture: 5.0% max.
- Lipid: 5.0% max.
- Total plate count: 5000/g max.
- Yeast and molds: 100/g max.
- Coliforms: Negative

One mode of action for mannan-based oligosaccharides involves interference with colonization of intestinal pathogens. Cell surface carbohydrates are primarily responsible for cell recognition. At the simplest level is the role of carbohydrates in blood types which are differentiated by cell coat sugars. Bacteria have lectins (proteins or glycoproteins) on the cell surface that recognize specific sugars and allow the cell to attach to that sugar. These sugars can be found on the epithelial cell surface. Binding of Salmonella, Escherichia coli and Vibrio cholera has been shown to be mediated by a mannose-specific lectin-like substance on the bacterial cell surface.

Typical Use: For: Pet Food Dairy Poultry and Livestock Use
Typical usage levels range from 100 to 300 grams/ton/feed.
Bio-Active Live Brewers Yeast

For Pet Food Poultry and Livestock Feed Manufacturers

Bio-Active Brewers Yeast: One of the only live yeasts processed grown by aerobic fermentation, for use in animal feeds where the residual medium molasses on which our selected strains are grown, are completely washed and removed during harvesting. This provides the user the highest purity and quality available in animal feed grade yeasts.

Bio-Active Brewers Yeast: Is vacuum packed, to conserve it's microbiological properties. On a cost / to use ratio, Bio-Yeast is one of the most economical and effective sources of live yeast culture for all of your feed mix needs.
Bio Active Live Brewers Yeast

Live Bio-Active Yeast Microbiological Specifications and Use Rates

Total Activity Plate Count........................................................................................................ 20 billion per gram
E. Coli........................................................................................................................................ Not detected in 500 gram
Staph. Aureus (coag +)........................................................................................................ Not detected in 500 gram
Salmonella............................................................................................................................... Not detected in 500 gram

Use Directions:

General use inclusion rates are from 50 to 100 grams per/ton. At the 50 gram per/ton rate Bio Active Yeast provides 1 million live Saccharomyces Cerevisiae cells in/on each gram of the total blended feed. This is why we say that Bio Active Yeast is one of the most economical and effective products of its kind. Research reports show that significant health and conversion benefits in livestock and poultry rations results are achieved with the 1 to 3 million per/gram/feed Saccharomyces Cerevisiae activity range.

Benefits for Ruminants:

* Shifts in microbial population numbers and species
* Favorable changes in volatile fatty acids contents of rumen
* Positive effects on rumen ammonia disappearance
* Positive effects on rumen pH
* Increase in fiber digestibility
* Changes in amino acid content of digesta presented for absorption in the abomsum
* Changes in microbial protein and amino acids in equine large intestine
Bio-Yeast Culture is available in bulk truck loads, bulk bags, or packaged in 50 pound craft paper bags.

Brewers-Yeast Culture Dehydrated

Effective and Economical Quality Dehydrated Brewers Yeast Culture

Typical Analysis on a Dry Basis

- Physical form and color: Non-Hydroscopic
- Light brown powder
- Particle size (through a 20 mesh screen): 100.0%
- Protein: 3.5.0%
- Ash: 8.0%/m ax.
- Moisture: 5.0%/m ax.
- Lipid: 5.0%/m ax.
- Total plate count: 5000/g max.
- Yeast and molds: 100/g max.
- Coliforms: Negative
- Salmonella: Negative (25g)

General Use Rates: Per Metric Ton
- Dairy - Beef: 2 to 5 kg
- Swine Starters Growers: 5 kg
- Poultry Layers Broilers: 2 to 5 kg
- Turkey Starters: 5 kg Growers: 2 kg
Yeast Autolysate Dehydrated of Saccharomyces Cerevisiae

Dried enzymatic digest of primary grown yeast produced from an unmodified strain of the botanical classification Saccharomyces using an autolysis process. Yeast Autolysate is processed using a proven strain of Saccharomyces cerevisiae.

Typical Analysis

- Crude Protein ................................ 30.0%
- Crude Fiber / Fibre........................... 6.0%
- Moisture / Humidité......................... 5.0%

The finished product has a brown color with a yeast aroma, suitable for various poultry and livestock feed product applications.

Yeast Autolysate is available in bulk truck loads, bulk bags, or packaged in 50 pound craft paper bags.
Ultrateck Laboratories Inc.
Thank You For Reviewing Our Products

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With Natural Biological Solutions to Nutritional Pollution

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