

Specification Sheet

alkosel[®] 3000

ALKOSEL[®] 3000 is an inactivated whole cell yeast (*Saccharomyces cerevisiae*) produced by growing yeast in the presence of measured amounts of selenium salts. Live yeast cells absorb selenium and biochemically transform it into seleno-proteins. **ALKOSEL[®] 3000** is washed to remove residual inorganic bound selenium leaving 98% of SE in an organic form. Every lot is assayed for total organic selenium and selenomethionine.

Lallemand Animal Nutrition guarantees the highest quality product by using an independent laboratory for verification of Total and Organic selenium levels.

Selenium has been discovered to be necessary for growth and fertility in animals. Several conditions have been linked to low tissue levels of selenium including: white muscle disease in multiple species,

selenium-responsive unthriftiness in cattle, exudative diathesis in chicks, muscle and liver abnormalities in pigs, increased somatic cell counts, mulberry heart, mastitis, decreased immune response, poor embryonic survival and other reproductive problems.

Selenium is well recognized for its antioxidant properties. Antioxidants serve to destroy free radicals produced in body tissues at the cellular level. Feeding **ALKOSEL[®] 3000** elevates selenium tissue and blood levels over that of feeding inorganic salts of selenium alone; thereby **ALKOSEL[®] 3000** increases the antioxidant potential within the tissue.

Alkosel *selenium yeast*
is approved for use in
organic agriculture



AMINO ACIDS

(g/100g protein) (typical value)

Alanine.....	6.8
Arginine.....	4.8
Aspartic Acid.....	11.0
Glutamic Acid.....	18.0
Glycine.....	4.6
Histidine.....	2.3
Isoleucine.....	4.4
Leucine.....	7.2
Tryptophan.....	1.2
Lysine.....	8.4
Methionine.....	1.6
Phenylalanine.....	4.2
Proline.....	3.9
Serine.....	5.3
Threonine.....	5.5
Tyrosine.....	3.6
Cystine.....	1.0

MINERALS

(mg/100g)

Phosphorus.....	3.6
Potassium.....	2.8
Calcium.....	60.0
Magnesium.....	156.0
Sodium.....	54.0
Iron.....	7.9
Zinc.....	7.0
Manganese.....	0.4
Copper.....	0.4
Selenium.....	3000 ppm

GUARANTEED ANALYSIS

Selenium (min).....	3000 mg/kg
Organic Selenium from Selenium Yeast (min).....	98%
Crude Protein (min).....	40%
Moisture (max).....	7%

DIRECTIONS FOR USE

For use as a selenium supplement in dairy cattle, calves, beef cattle, swine, chicken, equine and turkey feeds. When used as the sole source of added selenium, do not exceed 0.20 lb/ton of finished feed as this equals 0.3 ppm Se supplementation.

Follow label directions. Per Feed Regulations, selenium must be added to complete feed in a minimum 1 lb/ton premix. To achieve this premix, mix 0.20 lbs of **ALKOSEL® 3000** with .80 lbs of carrier and add to feed at 1 lb/ton to equal 0.3 ppm in finished feed.

STORAGE AND HANDLING

Store product in a cool, dry place. Keep package closed after each use.

INGREDIENTS

Primary dried selenium yeast. This product is not a source of viable microorganisms.

PHYSICAL PROPERTIES

Appearance: Light brown tan powder.

PACKAGING

20 kg bag with polyethylene liner.

DISCLAIMER OF WARRANTY

Buyer assumes all responsibilities for use, storage, and handling of the product upon receipt. LANNA accepts no responsibility for conditions and uses by buyer which are beyond the control of LANNA. The foregoing warranty is in lieu of all other warranties and conditions, expressed or implied. LANNA's entire obligation under the limited warranty shall not exceed the total amount paid for the product.