

ALKOSEL® R397

THE PREMIUM SOURCE
OF BIOAVAILABLE SELENIUM

ALKOSEL® R397 is a specific inactivated whole cell yeast (*Saccharomyces cerevisiae* NCYC R397) product containing the essential trace element selenium in its natural food form, L(+) selenomethionine.

It is produced by growing yeast in the presence of measured amounts of selenium. This specific yeast strain absorbs selenium and biochemically transforms it into the highly bioavailable L(+) selenomethionine and other seleno-proteins.

Selenomethionine is naturally found in edible plant protein but only at very low concentration. It is the most suitable form of selenium for animal nutrition.

NUTRITIONAL ANALYSIS

SPECIFICATIONS:

| | |
|--------------------|-----------------------|
| • Ash | 6-8 % |
| • Humidity | < 7 % |
| • Protein | min. 40 % |
| • Selenium | 2 200 ppm +/- 200 ppm |
| • Selenomethionine | 3 100 ppm +/- 200 ppm |

PHYSICAL PROPERTIES

APPEARANCE:

- light brown tan powder

APPLICATION:

- ALKOSEL® R397 has been formulated to ensure optimal flow during the industrial process and an homogeneous repartition into premixes.
- ALKOSEL® R397 is compatible with most ingredients and additives used in the manufacture of feedingstuffs.

HEAVY METALS:

| | |
|-----------|---------|
| • Arsenic | < 1 ppm |
| • Lead | < 1 ppm |
| • Cadmium | < 1 ppm |
| • Mercury | < 1 ppm |

MICROBIOLOGICAL SPECIFICATIONS

| | | | |
|---------------------|----------------|-----------------------------------|----------|
| • Total Plate Count | < 10 000 CFU/g | • <i>Staphylococcus aureus</i> /g | Negative |
| • Yeast and Moulds | < 300 CFU/g | • <i>Salmonella sp.</i> /25g | Negative |
| | | • <i>E. coli</i> /g | Negative |

QUALITY ASSURANCE

ALKOSEL® R397 is a nutritional feed additive authorised in the EU for use in all animal species (EC N°3b8.11). The specific yeast strain of *S.cerevisiae* R397 used for the manufacture of ALKOSEL® R397 is registered at the National Collection of Yeast Culture (NCYC) in the UK.



LALLEMAND SAS
19, rue des Briquetiers - BP 59
31702 Blagnac Cedex - FRANCE
Tel.: +(33) 5-62-74-55-55
Fax: +(33) 5-62-74-55-00

www.lallemandanimalnutrition.com
animal@lallemand.com

INCLUSION RATE

In EU, do not exceed 0.5 ppm of total Se in the diet.

ALKOSEL[®] R397

* Se Requirements (INRA/NRC)

| PIGS | *Se |
|------------------|---------|
| • Piglets | 0.3 ppm |
| • Fattening Pigs | 0.1 ppm |
| • Sows | 0.3 ppm |

| BROILERS | *Se |
|-------------|---------|
| • Starters | 0.3 ppm |
| • Growers | 0.2 ppm |
| • Finishers | 0.2 ppm |

| LAYERS | *Se |
|--------|---------|
| | 0.2 ppm |

| REPRODUCING POULTS | *Se |
|--------------------|---------|
| | 0.3 ppm |

| BEEF CATTLE | *Se |
|-------------|---------|
| | 0.2 ppm |

| DAIRY CATTLE | *Se |
|--------------|---------|
| | 0.3 ppm |

| FISHES | *Se |
|--------|---------|
| | 0.2 ppm |

| SHRIMPS | *Se |
|---------|---------|
| | 0.3 ppm |

This table reports the requirements defined by INRA and NRC. However selenium supplementations have to be optimised according to several external parameters (such as origin of the basal diet, zootechnical performances targeted, etc.)

SAFETY

In EU, total selenium in feed material from all sources must not exceed 0.5 ppm. Follow label directions.

ALKOSEL[®] R397 must be incorporated in compound feedingstuffs in form of a premixture. Wear breathing apparatus, safety glasses and gloves whilst handling.

To be used exclusively in the manufacture of feeding-stuffs.

ALKOSEL[®] R397 has a shelf life of 36 months if the product is stored in a cool, dry place.

PACKAGING

25 kg bags with polyethylene liner.



LALLEMAND SAS
19, rue des Briquetiers - BP 59
31702 Blagnac Cedex - FRANCE
Tel.: +(33) 5-62-74-55-55
Fax: +(33) 5-62-74-55-00