provided by Infoteca-e

## **Cottonseed cake**

Detoxification process of cottonseed cake





Raw material

Process

End product

Cottonseed cake

Detoxification by macrofungi

**Detoxified substrate** 

Degradation process of antinutritional or toxic compounds (gossypol and phytate) present in cottonseed cake by cultivation of macrofungi, with formation of bioactive metabolites (polysaccharides, proteins, sterols, carotenoids, among others) in the pretreated biomass.

## **Applications**

+ Animal nutrition (monogastric and polygastric).

## **Advantages**

- + Increased digestibility and metabolizable energy of the feedstock through partial delignification and depolymerization of biomass.
- + Alternative treatment of oilseed cakes with restricted use due to toxic factors in animal nutrition.
- + Bioenrichment of cottonseed cake with incorporation of bioactive microbial metabolites.
- + Reuse of residues.

## Stage ► TRL/MRL 4 - Lab scale

Take this technology to another stage



Research with us for other potential uses



Make this technology the basis of your incubated company