

***Jatropha curcas** cake*

Detoxification process of *Jatropha curcas* cake

Photos: Apolo Salvador



Embrapa
Agroenergy



Detoxification process of *Jatropha curcas* cake

Raw material

***Jatropha curcas* cake**

Process

**Detoxification by
macrofungi**

End product

Detoxified substrate

Degradation process of toxic compounds (phorbol esters) present in *Jatropha curcas* cake by cultivation of macrofungi, with formation of bioactive metabolites (polysaccharides, proteins, sterols, 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 *Jatropha curcas* cake with incorporation of bioactive microbial metabolites.
- + Reuse of residues.

Stage ► TRL/MRL 4 - Lab scale

Take this
technology
to another
stage



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technology
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Person in charge: SIMONE MENDONÇA

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