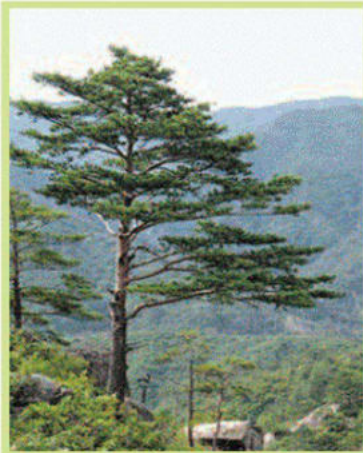


CLEANTEC

A Dietary Supplement for Harmful Gas Binder

Cleantec contains an extract of *Yucca Schidigera* plant and *Pinaceae Colophorium* plant known for its ability to reduce/bind ammonia (NH₃) and other harmful gases arising from animal waste.



SOMA
Always with Animal Producers



• **Direct Application**

Cleantec - 100 (a powder form for adding animal feeds) :

250g to 500g per ton of feeds

Cleantec - Q (Liquid form for drinking water tank and on the slurry, manure)

Diluting 1 ℓ in 100 ℓ water for drinking water or spray onto
100 m² (1,000 m³)

- In the first time application, spray Cleantec-Q, 2 times a week into inside of barns, slurry, and lagoon, with using the feed containing Cleantec-100 simultaneously.
- Actual effect for removing odor occurs after 2 weeks of first application. After 2 weeks, usage rate of Cleantec-Q should be reduced to once a week with using the Cleantec-100 continuously. No more application of Cleantec-Q needs after 1 month.

• **Packing**

Cleantec-100 : 25kg paper bag

Cleantec-Q : 1 liter, 9 liter, and 20 liter plastic barrels

• **Feeding Period**

No restriction



SOMA Inc.

24, Hanbul-ro 69 Beon-gil, Eumseong-eup, Eumseong-gun,
Chungcheongbuk-do, Korea

Tel +82 31 781 4647 Fax +82 31 781 4680

www.ssoma.co.kr

What is **CLEANTEC** ?

CLEANTEC is a mixed product, containing Yucca extract, Pinaceae extract, viable cells, enzymes, and yeast culture.

CLEANTEC to be composed of peculiar mixing ratio of five kind chief ingredients has the effectiveness as below through which act in the interior of body of the domestic animal at the same time at the excreta.

1. Ammonia suppression
2. A growth promotion of the domestic animal
3. Promotion of organic matter in the excreta disposal plant, easy handle of excreta and livestock waste

Because **CLEANTEC's** ammonia restraint is excellent compared with existing simple Yucca extract, it can get superior effectiveness although the some adds it at the feed.

Economic Control of Ammonia = Reduced production cost and increased output

Biological Nitrogen Cycle with/without **CLEANTEC**

NO **CLEANTEC**

Ammonia not assimilated by microbes is lost : as a gas, from gut to blood, etc.



CLEANTEC

Binding maintains NH₃ in a concentration favorable to microbial growth





Constituents of **CLEANTEC**

- ◆ Yucca Plant Extracts
- ◆ Pinaceae plant Extracts
- ◆ Enzymes: Amylase, Proteinase, Lipase
- ◆ Bacillus Subtilis
- ◆ Yeast Culture



Problems caused by Excess Ammonia in Farm Biosystems

Problem

Symptom

Poor animal health	>>>>>>	Respiratory infections, ascites
Lower productivity	>>>>>>	Poor efficiency, rate of gain
Reproduction declines	>>>>>>	High BUN, pheromone interference
Energy costs increase	>>>>>>	Heat vs NH ₃ exhaust
Carcass quality suffers	>>>>>>	Indole/skatole in boars, breast blisters in poultry
Lagoon function	>>>>>>	Slow degradation, crust, odor, lost fertilizer value
Water quality crisis	>>>>>>	Toxicity to fish and prawns
Building maintenance	>>>>>>	Litter use, metal corrosion



Production and Quality Control of **CLEANTEC**

Both Yucca plants and Pinaceae plants are harvested, dried, ground and extracted in an improved process to maximize yield of extract. The extract is standardized based on the amount of ammonia a given quantity of extract will bind (B₅₀ test). This quality control step ensures consistency of the final **CLEANTEC** product from batch to batch and is unique among plant extract products.