



Specialty Product – Shrimp

## Shrimp Molt Inducer SMI300

Induced molting on ready, healthy shrimp using SMI300 increases production and profitability.

Molting or ecdysis in shrimp is the most essential process in its development. The shedding of the exoskeleton is a necessary precondition for growth. It has long been known that shrimp will increase its body size and weight by as much as 5–10% every time it moults. So, the practice of timely induced molting on ready, healthy shrimp increases production and profitability.

GLB's Shrimp Molt Inducer - SMI300 is an enzymatic complex that when added to feed will help to enhance the specific conversion of protein and lipid ingredients in the feed toward the production of hormones necessary for ecdysis. Ecdysone, the hormone responsible for molting in the shrimp, is hydrolysed by the shrimp from lipids and cholesterol from various feed sources. The ready supply of lipases including cholesterases, and proteases in SMI300 will hasten the production of hormones in the shrimp's Y-organs or ecdysial glands.

Likewise, during the starvation stage associated with premolt, shrimp must use their energy reserves to meet their continuing dietary and physiological requirements for growth and survival. Since some of the necessary enzymes may be deficient in the animal, or not readily available in the feed or natural sources, any

shortage will have to be supplemented by artificial means such as with the addition of SMI300.

SMI300 is also specially suited to control parasites, bacterial or other infections in shrimp. For instance, when pathogenic bacteria and hemocytes aggregate at the gill openings, respiratory function is impaired and aerobic metabolism is disrupted. This leads to depressed appetite, hypoxia and eventual mortality. This condition is relieved by ecdysis. Hence, a controlled induced molting may be the best step toward saving the crop. When the exoskeleton is discarded, the farmer can then disinfect the water column to eliminate further infection.

SMI300 benefits:

- Additional tool to control parasites and bacterial infections
- Planned and managed shrimp growth for better control
- Phenomenal growth rates and shorter culture cycles
- Feed conversion ratios above the norm
- Lower feed costs, higher profits
- Rapid re-supply of depleted nutrients lowers mortality rate

*The Complete Aquaculture Program*





# SMI300

## Application

**Starter Post Larva:** Add 2.0 ml of Shrimp Molt Inducer per kg of feed. Feed to animals once every 7-10 days, one time feeding only.

**Grower Post Larva:** Add 3.0 ml of Shrimp Molt Inducer per kg of feed. Feed to animals once every 7-10 days, one time feeding only.

**Finisher Post Larva (until harvest):** Add 4.0 ml of Shrimp Molt Inducer per kg of feed. Feed to animals once every 7-10 days, one time feeding only.

For best results, mix Shrimp Molt Inducer 1:25 – 1:50 with water. Spray this dilution to the feed, let air dry 20 minutes, then feed to shrimp.

### Important Notes:

1. Do not use GLB DE Products in the same feeding as SMI300. DE Products can be fed to shrimp on the next feeding or on the next day.
2. Use SMI300 when most shrimp exhibit dark, hard shells.
3. SMI300 is safe and will not induce premature molting.

## Composition

This proprietary formula contains water, enzymes from plants, enzyme enhancing agents, trace minerals and stabilizers.

(Partial list of active enzymes: Amylase, Catalase, Cellulase, Esterase, Hemicellulase, Hydrolase, Isomerase, Ligase, Lipase, Lyase, Oxidoreductase, Protease, Transferase, Cholesterase among others).

## Packaging



20 L  
Tight-head Pail



60 L  
Poly Drum



200 L  
Poly Drum

## Handling and Storage

Apply only as intended. Though this product is non-toxic and nonhazardous, it is not suitable for human consumption. The manufacturer assumes no liability, expressed or implied, in the use of this product.

Store this product out of direct sunlight in a cool dry area (under 40° C). For best results, use within 12 months. Request a SMI300 MSDS for more specific information.

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