



# Entegard® IMPROVES THE HEALTH AND GROWTH PERFORMANCE OF FISH & SHELLFISH

## ➤ GUT BENEFITS

- Entegard® IMPROVES GUT VILLI HEIGHT
- Entegard® IMPROVES GUT CRYPT DEPTH
- Entegard® IMPROVES GUT BARRIER FUNCTION
- Entegard® IMPROVES NUTRIENT ABSORPTION
- Entegard® IMPROVES GUT SURFACE AREA
- Entegard® SUSTAINS A HEALTHY SMALL INTESTINE MICROBIOTA

## ➤ GUT CRYPT DEPTH IMPROVEMENT



## ➤ ADVANTAGES

- ANTIBIOTIC-FREE
- HIGHER ACCEPTANCE FROM CONSUMERS AND REGULATING AGENCIES
- KEY ACTIVE INGREDIENT IS NATURAL SOURCE LYSOZYME
- LYSOZYME FOR ENTEGARD® IS PRODUCED UNDER EUROPEAN STRICT QC & QA
- ACCESS PREMIUM MARKETS
- EXPORT TO EUROPE WHERE IMPORTS MUST BE RWA<sup>2</sup>
- MARKET OF RWA<sup>2</sup> IS GROWING IN ASIA RAPIDLY
- EASY TO USE AND EFFECTIVE
- ENCAPSULATED FORM TO ENSURE INGREDIENTS INTEGRITY
- FULL EFFICIENCY WHEN INGESTED BY FISH AND SHELLFISH

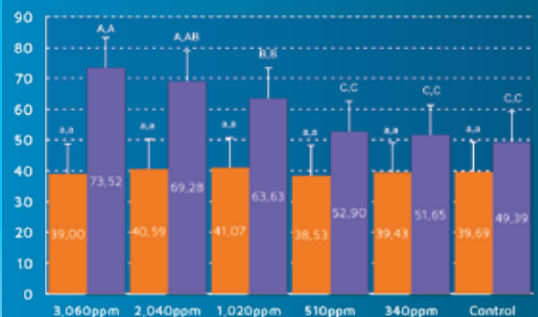
## ➤ ACTIVITY IN VITRO | SHRIMPS

MICROORGANISM	MIC - PPM <sup>10</sup>
<b>Vibrio damsela</b>	<b>625</b>
<b>Vibrio fluvialis</b>	<b>1250</b>
<b>Vibrio vulnificus</b>	<b>1250</b>
<b>Vibrio parahaemolyticus</b>	<b>1250</b>
<b>Vibrio cholerae</b>	<b>1250</b>

## ➤ BENEFITS IN AQUACULTURE

- INCREASED GROWTH IN FISH FARMING FOR FISH AND SHELLFISH
- INCREASED OVERALL FEED EFFICIENCY REDUCING COSTS
- IMPROVED SURVIVAL RATES OF FARMED AQUATIC ANIMAL
- BOOSTED IMMUNE SYSTEM AGAINST VIRAL CHALLENGES
- THERMALLY STABLE ENCAPSULATED FORM SUITABLE FOR FEED IN FARMS

## ➤ STRONGER IMMUNE SYSTEM (Phagocytic Activity)



1. Raised without antibiotics / antibiotic-free





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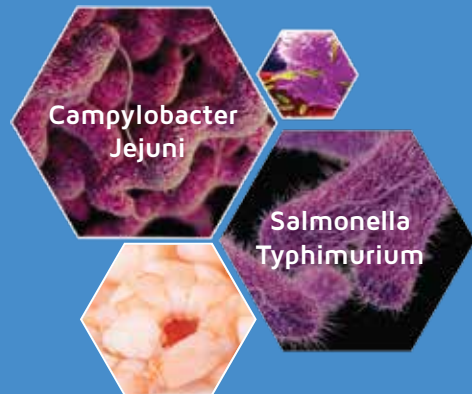
### ➤ ANTIBACTERIAL ACTIVITY

Entegard® provides activity against bacterial challenges in standard or ABF operations:

Entegard® BREAKS DOWN THE CELL WALL OF BACTERIA

Entegard® INFLUENCES AND REDUCES BACTERIAL POPULATION

Entegard® IS THE IDEAL ALTERNATIVE TO ANTIBIOTICS



### ➤ IMMUNOMODULATOR ACTIVITY

Entegard® improves overall fish and shellfish health preventing antibiotic resistance risk:

Entegard® Lyses the cell wall of bacteria

Entegard® Promotes clearance of microbial debris

Entegard® Reduces gut inflammation

### ➤ EASY TO USE THROUGH FEED:

Entegard® PLUS | 





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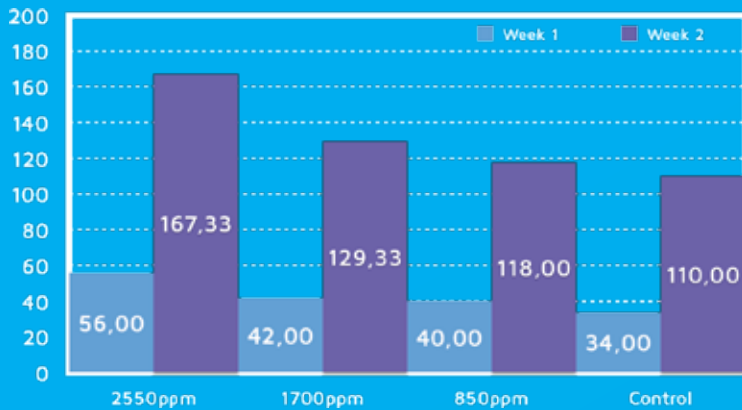




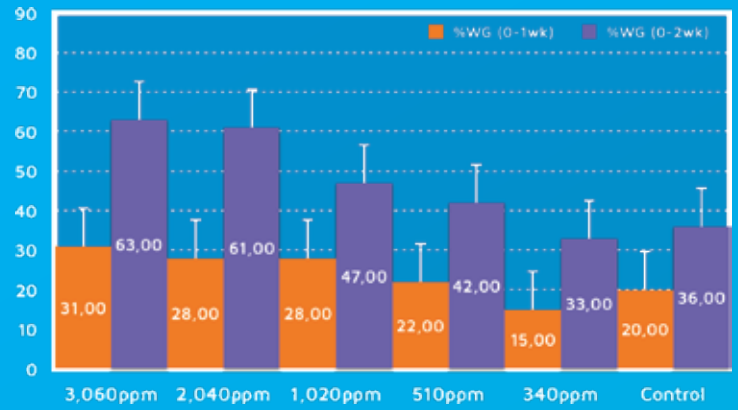
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## ► COMMERCIAL TRIALS

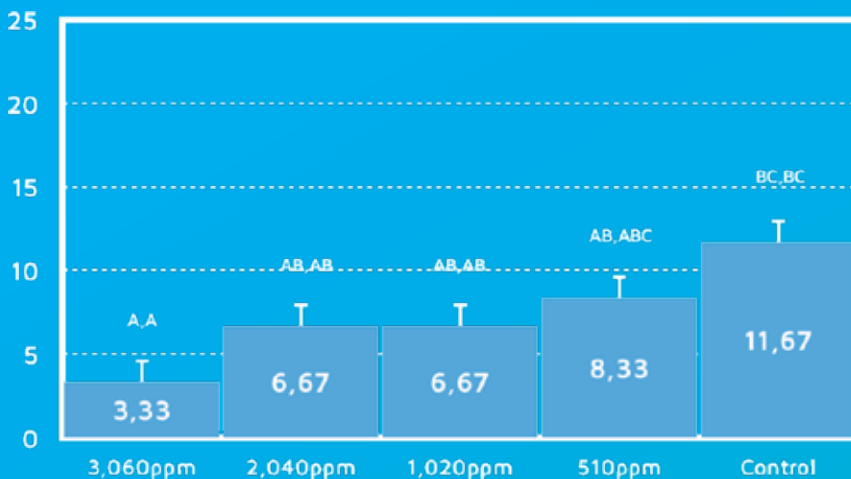
WHITE SHRIMPS GROWTH PERFORMANCE



WHITE SHRIMPS WEIGHT GAIN WEEK 1-2



WHITE SHRIMPS MORTALITY(%)





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**ADDITIONAL INFORMATION**

➤ MIX WITH FEED BEFORE EXTRUSION

Entegard® PLUS | 

 FEED

Mix with feed before extrusion as per table before.  
Use during the entire life cycle.

**RECOMMENDATIONS:**

Avoid temperature above 35°C

**SHELF LIFE:** Up to 24 months at ambient temperature when stored in original packaging and protected from moisture

 COLOUR  
YELLOW/BROWN

 FORM  
GRANULATED

 MAX TEMPERATURE  
**85°C**

Entegard® PLUS | 

**DOSAGE INFORMATION**

**RECOMMENDED DAILY DOSAGE**

Feed Tons T	 Kg	 Kg	SPECIES	ppm
30	36	25.5	Fish	1200
80	96	68	Shrimps	850
330	396	280.5		
580	696	493		
830	996	705.5		

Entegard® is produced in The Netherlands according to FAMI-QS standards

 bioseutica®

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