



# Entegard® IMPROVES THE HEALTH AND GROWTH PERFORMANCE OF LIVESTOCK

## ➤ 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

## ➤ ADVANTAGES

- NOT AN ANTIBIOTIC
- HIGHER ACCEPTANCE FROM CONSUMERS, HIGHER PRICE PAID
- 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> MEAT IS GROWING IN ASIA RAPIDLY
- ENTEWARD® WS DELIVERS WATER ACIDIFICATION TO OPTIMUM LEVELS

## ➤ BENEFITS IN BROILERS PRODUCTION

- IMPROVED GUT HEALTH WHEN USED AS COMPLEMENTARY FEED
- FCR<sup>1</sup> - LIVE WEIGHT PERFORMANCE AS IN CONVENTIONAL PRODUCTION
- SUITABLE FOR THE WITHDRAWAL PERIOD IN RWA/ABF2 PRODUCTION
- MAINTAIN THE FLOCK HEALTHY AVOIDING LOSSES
- OVERCOME NE<sup>3</sup> BY ALLOWING BETTER ABSORPTION OF NUTRIENTS

1. Feed Conversion Ratio  
 2. Raised without antibiotics / antibiotic-free  
 3. Necrotic Enteritis

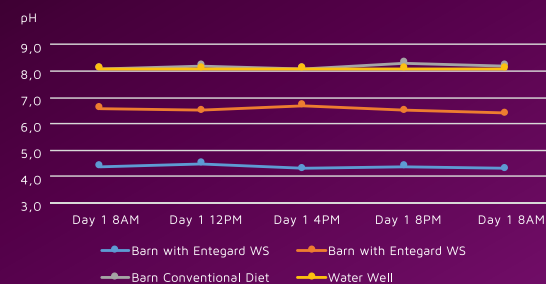
### ➤ GUT CRYPT DEPTH IMPROVEMENT



### ➤ ACTIVITY IN VITRO

BACTERIA	MIC - PPM3
<i>Campylobacter jejuni</i>	350
<i>Clostridium perfringens</i> type A	31-62.5
<i>Clostridium perfringens</i> type C	31
<i>Clostridium septicum</i>	62.5
<i>Escherichia coli</i> 4	31-625
<i>Salmonella typhimurium</i>	1250

### ➤ WATER ACIDIFICATION | Entegard® WS |





## Entegard® IMPROVES THE HEALTH AND GROWTH PERFORMANCE OF LIVESTOCK

### ➤ 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 poultry health preventing antibiotic resistance risk:

Entegard® Lyses the cell wall of bacteria

Entegard® Promotes clearance of microbial debris

Entegard® Reduces gut inflammation in poultry

### ➤ EASY TO USE THROUGH WATER OR FEED, PRODUCT FORMS:

Entegard® WS |   
 WATER SOLUBLE

Entegard® PLUS |   
 FEED



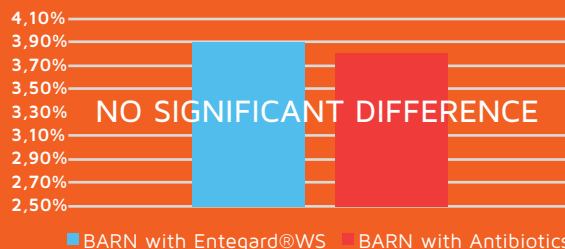
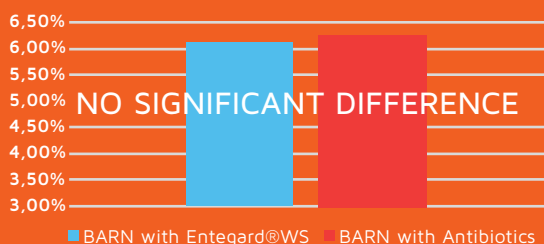
Source: Letters in Applied Microbiology 42 (2006) 138-143



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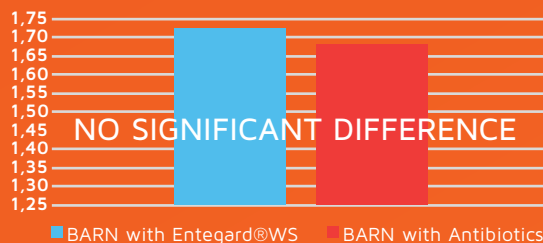
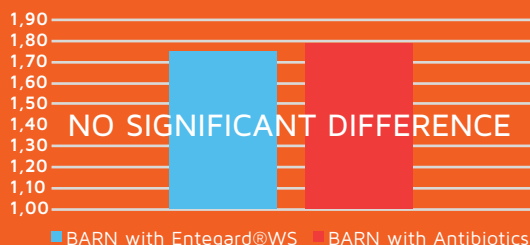
## ➤ COMMERCIAL TRIALS EVIDENCE (A) October 2016 | (B) January 2017

### ➤ SIMILAR MORTALITY USING ENTEGARD® vs ANTIBIOTICS



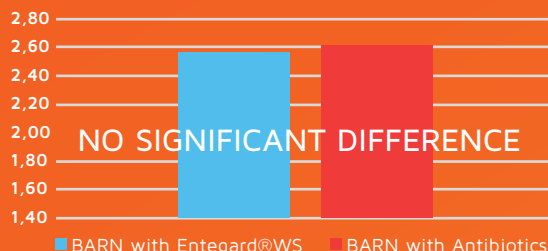
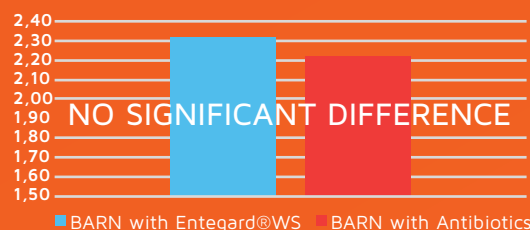
### ➤ SAME FEED CONVERSION RATIO BY USING ENTEGARD®

OCTOBER 2016



JANUARY 2017

### ➤ EQUIVALENT LIVE MEAT TO MARKET WITH ENTEGARD® OR ANTIBIOTICS





# Entegard® IMPROVES THE HEALTH AND GROWTH PERFORMANCE OF LIVESTOCK

## STOCK SOLUTION PREPARATION

➤ FOR APPLICATION WITH A 1:128 WATER PUMP

Entegard® WS | 




 WATER SOLUBLE

 COLOUR **WHITE**  FORM **POWDER**  MAX TEMPERATURE **65°C**

Mix thoroughly with water from the same normal source for the barn  
Mix until there is no sediment, some suds/foam will be produced  
Start with a 20L bucket and a 40L bucket for and beyond the 3rd week  
Connect the stock solution to the medicator pump through a normal host

**RECOMMENDATIONS:**

Throw out remainder solution from past day - Avoid temperature above 35°C  
**SHELF LIFE:** Up to 24 months at ambient temperature when stored in original packaging and protected from moisture.

Water Liters	Entegard® WS    grams	RECOMMENDED DAILY DOSAGE	
30	6	BROILERS	ppm
80	16	Healthy	200
330	66	NE <sup>1</sup> Affected	1000
580	116	 	
830	216		

1. Necrotic Enteritis

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

 bioseutica™

Landbouwweg 83, 3899 BD Zeewolde, The Netherlands - Phone: +31.36.522.6300  
customerservices@bioseutica.com  
http://www.bioseutica.com

For North, Central and South America enquiries please contact Alex Yousif  
e-mail: ayousif@bioseutica.com - Info-line +1.604.996.1561 - Abbotsford BC, Canada

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