

ENGAGE THE POWERFUL SYNERGY OF

BMD[®] AND AUREOMYCIN[®]



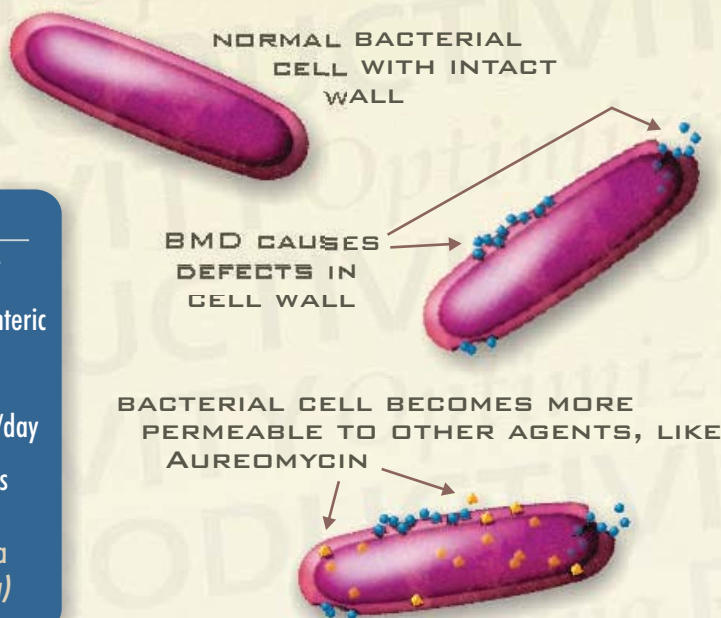
- Intensify antimicrobial potency
- Optimize performance
- Minimize disease threats
- Reduce production costs
- Enhance herd health and welfare

BMD (bacitracin methylene disalicylate) is the powerful performance-enhancing feed additive that can dramatically improve growth, efficiency, and health of grow/finish pigs. Aureomycin (chlortetracycline) is the time-proven broad-spectrum antimicrobial that controls both enteric and systemic/respiratory disease. When fed *together*, these two popular management tools form an unsurpassed synergy, providing health and productivity benefits much greater than either alone.

CHARACTERISTICS OF THE BMD AND AUREOMYCIN COMBINATION

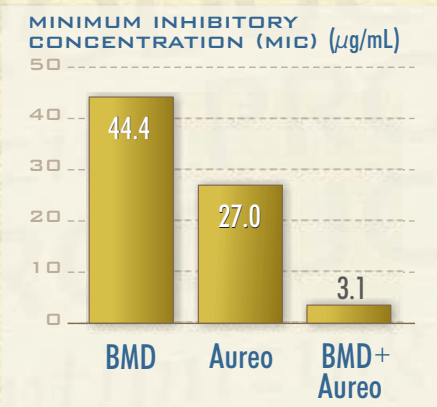
	BMD	Aureomycin
Dispersion	Not absorbed from gut	Absorbed from gut
Site of action	Enteric	Systemic/respiratory/enteric
Activity	Primarily Gram-positive	Broad spectrum
Feeding rate	30 g/ton	10 mg/lb body weight/day
Feeding period	Continuous to market	Pulses up to 14 days
Synergistic Benefits: Improve ADG and F/G; Control pneumonia (<i>Pasteurella</i>), ileitis (PPE), and enteritis (<i>E. coli</i> , <i>Salmonella</i>)		

POSSIBLE MECHANISM FOR BMD/AUREOMYCIN SYNERGY¹⁻³



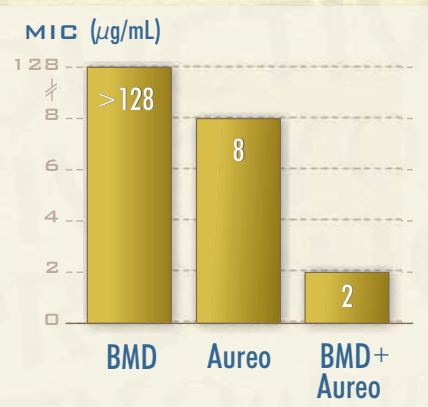
BMD+AUREOMYCIN LABORATORY SYNERGY

SYNERGY AGAINST 51 CLOSTRIDIUM PERFRINGENS FIELD ISOLATES⁴



- BMD-resistant *C. perfringens* evaluated
- *C. perfringens* showed a significant improvement in susceptibility to the combination of BMD and Aureomycin

SYNERGY AGAINST LAWSONIA INTRACELLULARIS⁵



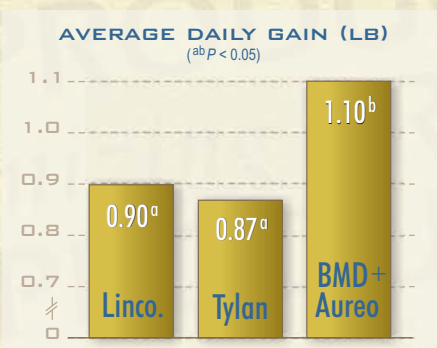
- BMD+Aureomycin combination has high potency against the ileitis pathogen, *L. intracellularis*
- *L. intracellularis* showed a 4-fold improvement in susceptibility to the BMD+Aureomycin combination

BMD AND AUREOMYCIN

Powerful production tools that work together for exceptional disease control and performance benefits that can increase profits.

BMD+AUREOMYCIN PRODUCTION AND HEALTH SYNERGY

BMD+AUREOMYCIN VS LINCOMIX® OR TYLAN® FOR CONTROL OF ILEITIS CHALLENGE INFECTION⁶



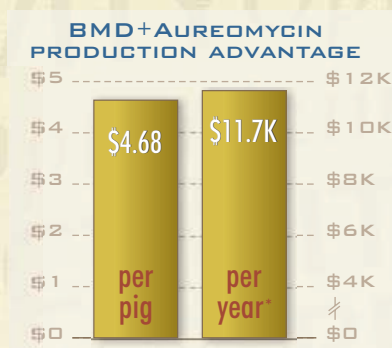
- 6-week-old pigs challenged with *Lawsonia intracellularis* organisms
- BMD (30 g/ton) continuous, plus Aureomycin (500 g/ton) for first 14 days of 26-day study, vs
- Lincomix or Tylan, each fed at 100 g/ton for 21 days followed by 40 g/ton
- All 3 treatments prevented ileitis-related mortality, reduced clinical signs of PPE (porcine proliferative enteritis), and reduced incidence/severity of intestinal lesions
- BMD+Aureomycin significantly ($P < 0.05$) improved average daily gain vs Tylan and Lincomix
- BMD+Aureomycin program cost much less than comparative treatments

EXTRA TREATMENT COST PER PIG COMPARED TO BMD+AUREOMYCIN PROGRAM



BMD+Aureomycin is the ONLY ileitis program that can also provide respiratory disease control.

BMD+AUREOMYCIN VS AUREOMYCIN CONTINUOUS⁷



- Grow/finish study (46-245 lb) in herd with history of respiratory disease
- BMD continuous plus Aureomycin for 7 days every 4th week, vs Aureomycin continuous
- BMD+Aureomycin combination produced:
 - 3.0% ADG improvement ($P < 0.002$)
 - 4.2% F/G improvement ($P = 0.054$)
 - 41% mortality reduction
 - 74% fewer injectable treatments needed
 - 73% less variation in lightest 10% of pigs

BMD
60

Available in premixes containing 30 or 60 g/lb bacitracin methylene disilylglucate

Aureomycin
100 Granular

Available in premixes containing 50, 90, or 100 g/lb granular chlortetracycline

ChlorMax
50

Available in premixes containing 50 g/lb meal chlortetracycline

- Only AlphaChlor chlortetracycline products have FDA approval for use in combination with BMD.