

ACTGROW

Advanced Solution for Modern Feed Industry



Probiotics



Enzymes



Antimicrobial Peptides

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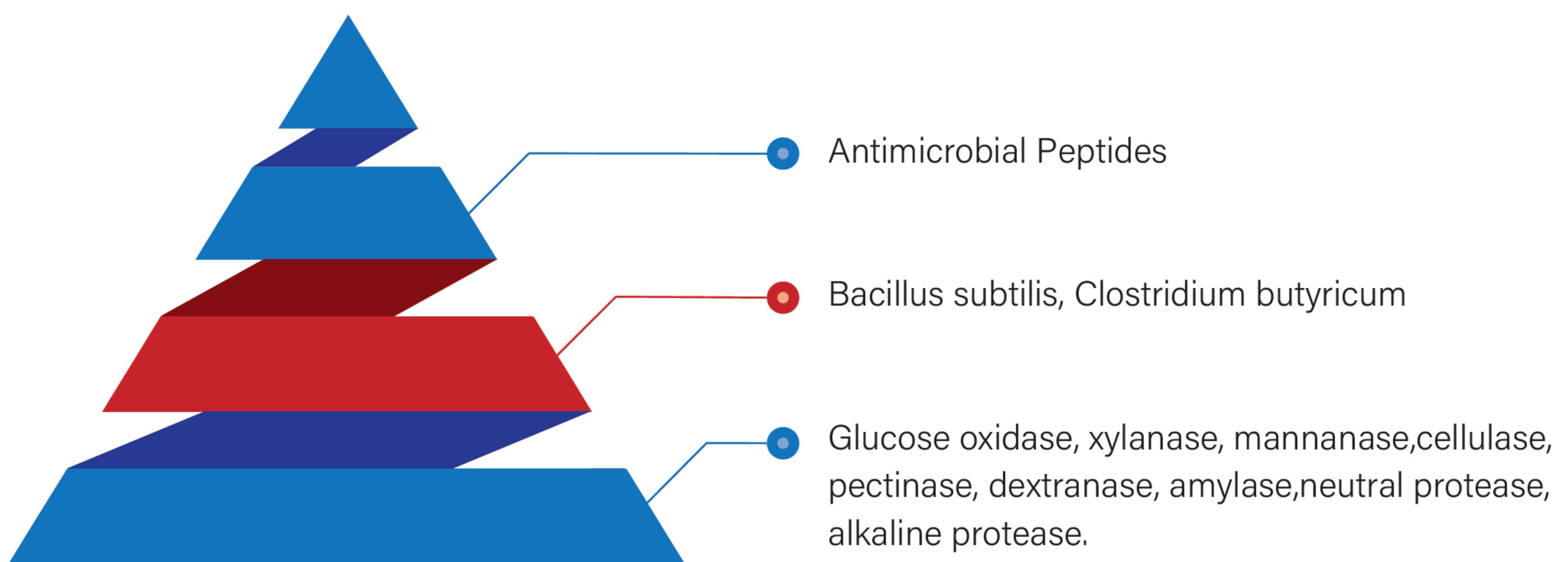
Address: Zhandong Village, Dangjia Town, Shizhong District,
Jinan, Shandong Province, China



ACTGROW —A Unique Combination of Probiotics + Enzymes + Antimicrobial Peptides

Actgrow was born of 20 years of research and market experience on animal health, is a new-generation, science-driven feed additive designed to enhance intestinal health and animal performance through enzyme optimization, microbiota modulation, and antimicrobial protection. It is an innovative multi-functional solution developed using advanced microbial fermentation and enzyme synergy technology. ACTGROW uniquely combines probiotics, multi-enzymes, and antimicrobial peptides (AMP) to deliver comprehensive support for modern feed production and intensive farming systems.

COMPOSITION



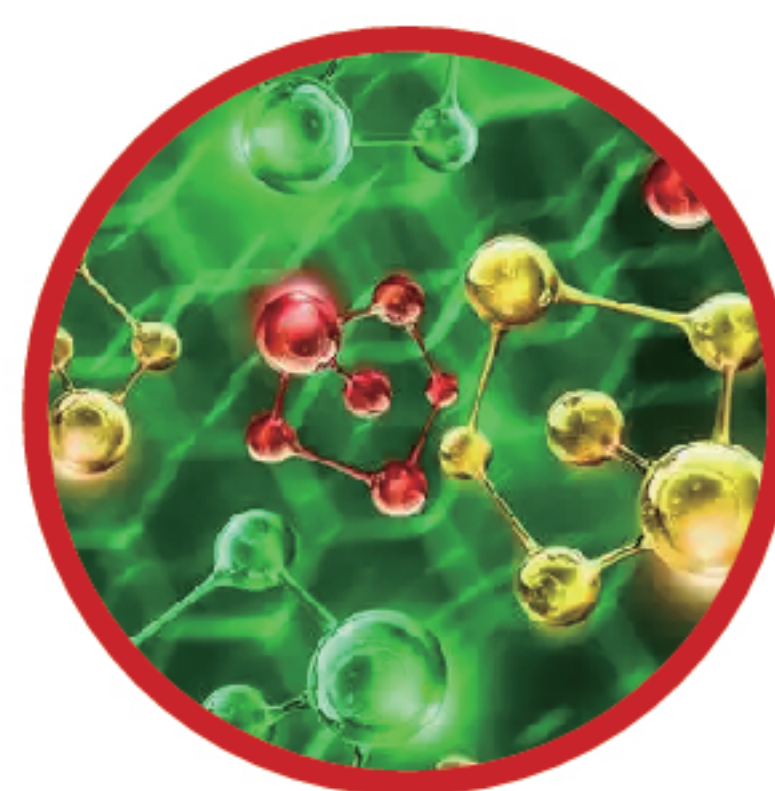
EXPLANATION OF IMPORTANT COMPONENTS



Probiotics

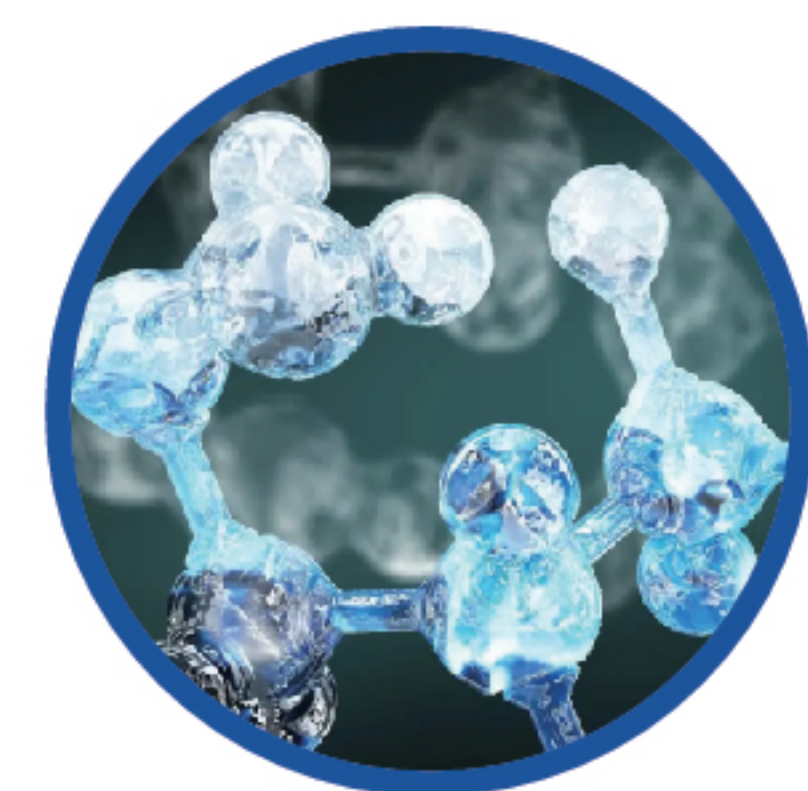
Bacillus subtilis & Clostridium butyricum

- Stabilize gut microbiota
- Promote intestinal health
- Enhance nutrient absorption
- Improve stress resistance



Multi-Enzyme Complex

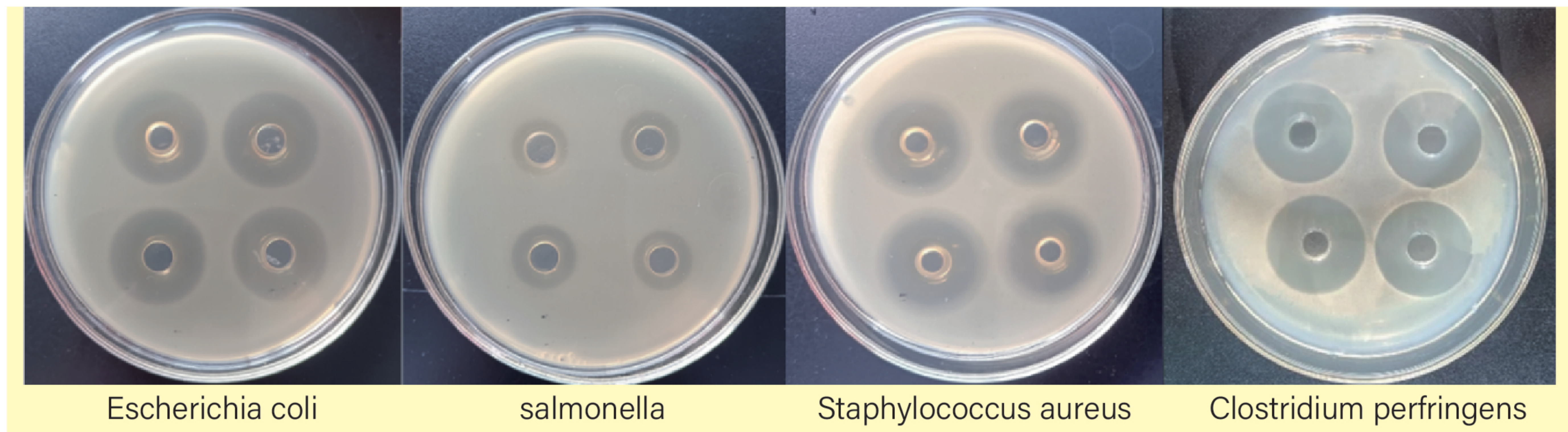
- Degrade anti-nutritional factors
- Improve feed digestibility
- Increase feed efficiency
- Maximize nutrient utilization



Antimicrobial Peptides (AMP)

- Broad-spectrum bacteriostatic activity
- Maintains intestinal microecological balance
- Supports intestinal metabolic and immune health

ACTGROW——In Vitro Bacteriostatic Test

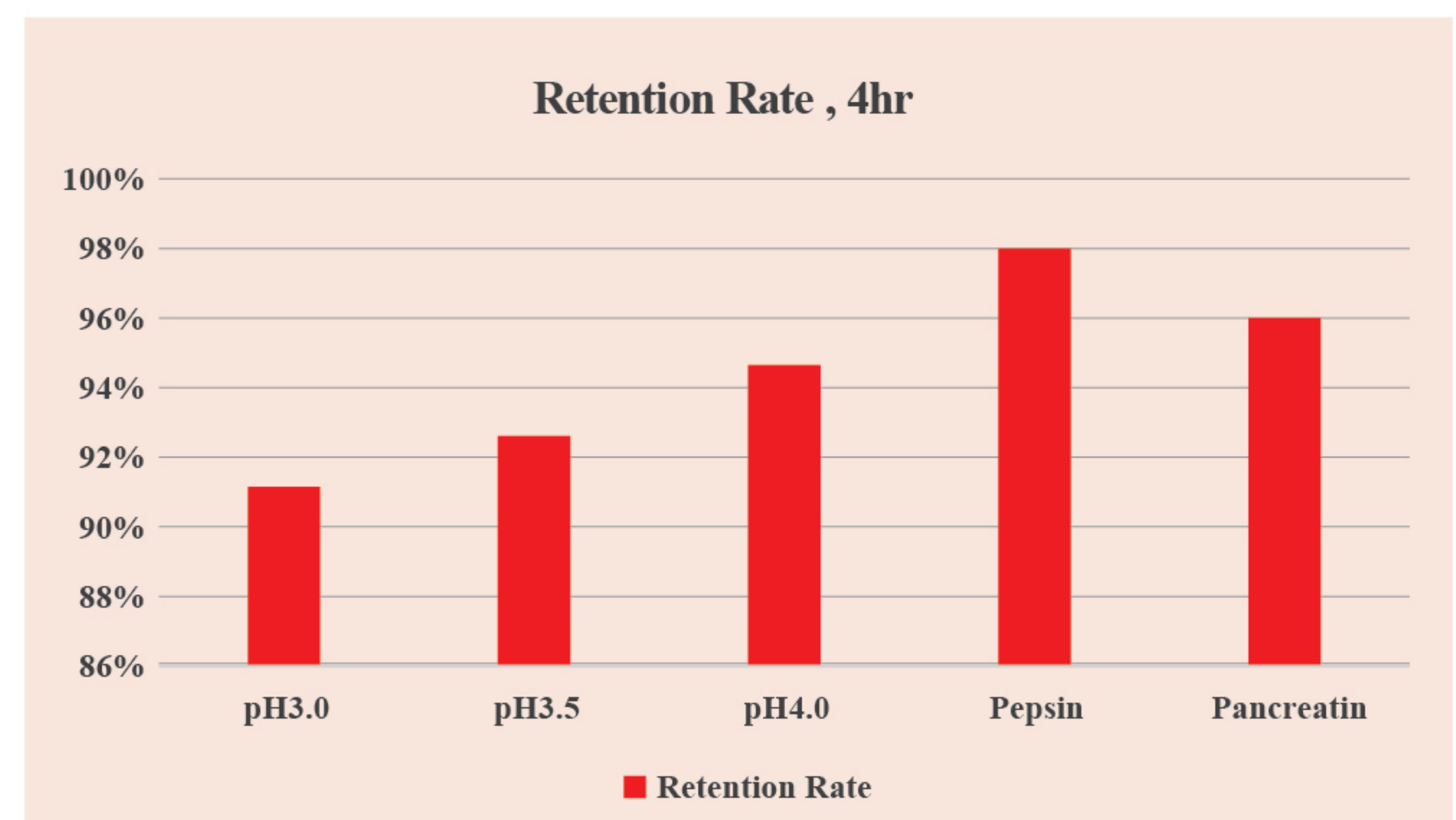
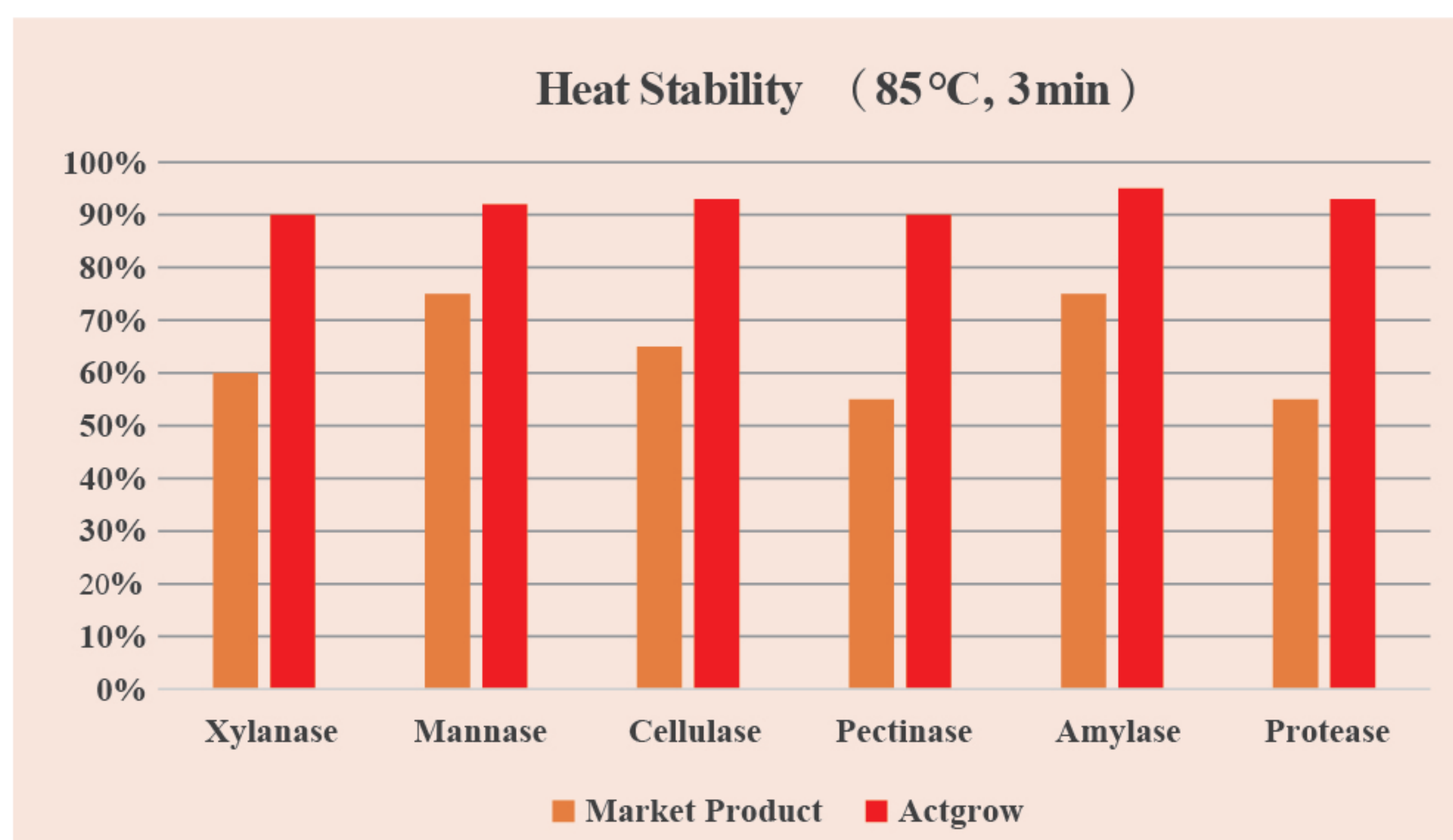
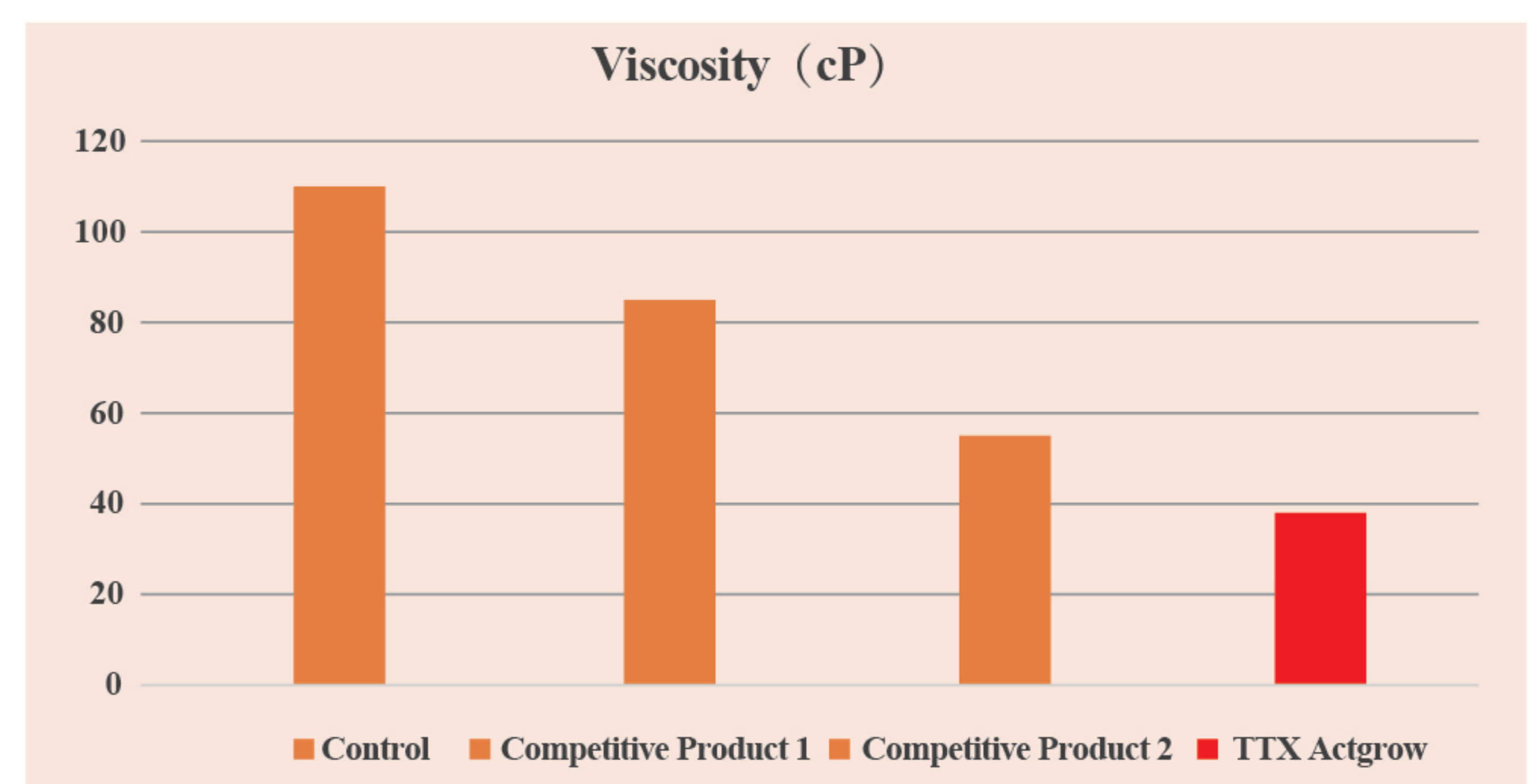


Pic 1 illustrates the Vitro Bacteriostatic Test of the antimicrobial peptides within ACTGROW.

The antimicrobial peptides in ACTGROW are natural bioactive compounds produced through *Bacillus* fermentation, mainly containing Surfactin and Fengycin. AMP works by disrupting the cell membrane structure of pathogens, causing leakage of intracellular contents and rapid cell death. Surfactin – Strong antibacterial activity against pathogenic bacteria Fengycin – Effective antifungal. Laboratory in vitro inhibition zone assays indicate that this product exhibits inhibitory activity against **Escherichia coli**, **Salmonella**, **Clostridium perfringens**, and **Staphylococcus aureus**.

ACTGROW——High Stability (Resistance to Acid, High Temperature and Pepsin)

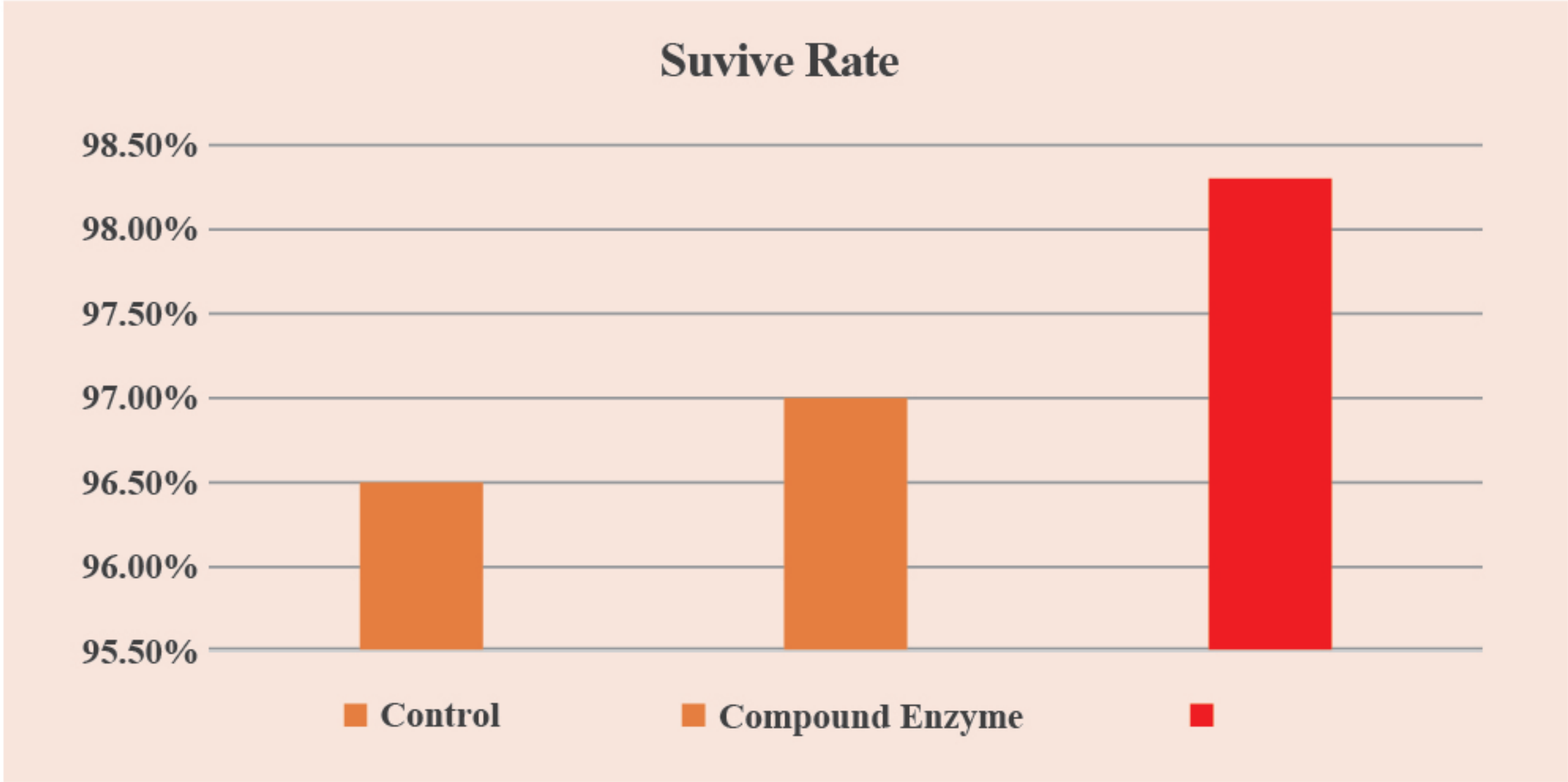
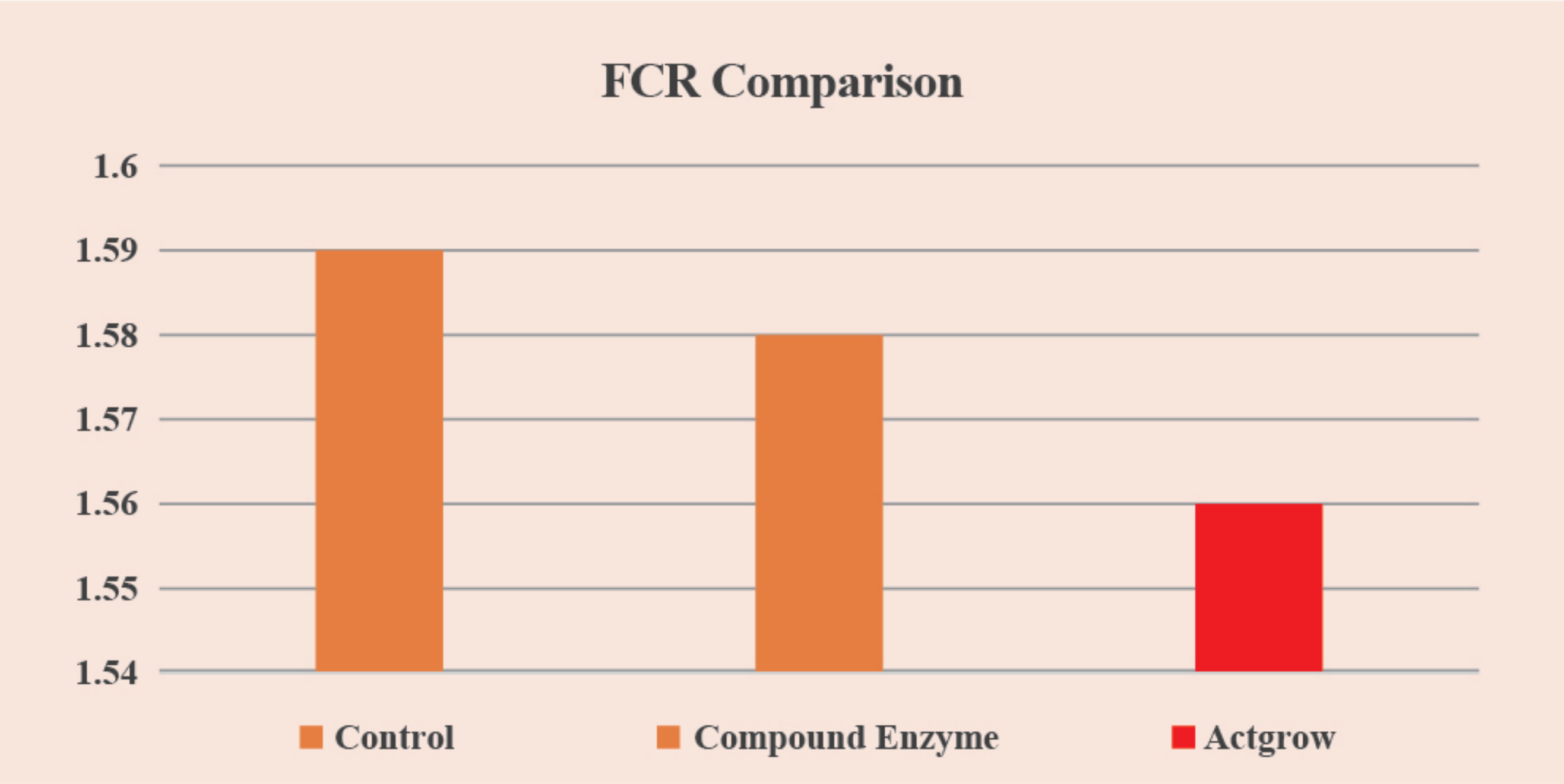
Perfect Stability On High Temp
Of Pelleting; Acid Environment;
Pepsin



ACTGROW——Application

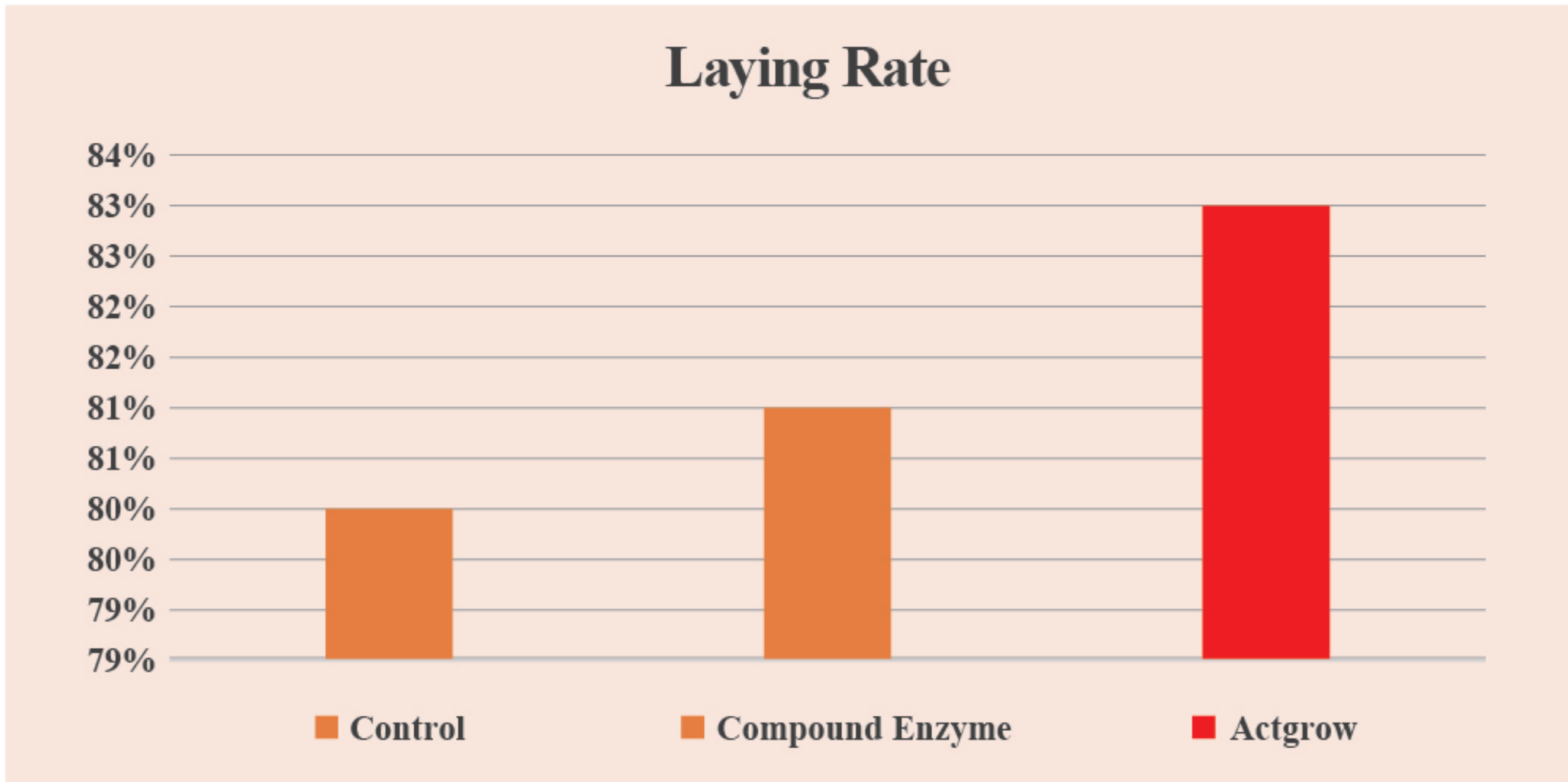
The application on broiler

Place: Pingdu, Shandong, China
Animal: ROSS 308
Feed: Corn-Soybean Feed
Trail Date: 2022.12-2023.1
Control group; Compound Enzyme Group; Actgrow Group



Application on layer

Place: Weifang, Shandong, China
Animal: Hy-line Brown
Feed: Corn-Soybean Feed
Trail Date: 2023.09
Control group; Compound Enzyme Group; Actgrow Group



ACTGROW——Product Information

Compound	Bacillus Subtilis, Clostridium Butyricum, Glucose Oxidase, Xylanase, β -mannase,Cellulase, Pectinase, β -glucanase, α -amylase, Neutral protease, Acid protease, Antimicrobial Peptides
Appearance	Powder
Dosage	Brolier: 150-200g/t Layer: 100-150g/t
Package	25kg/bag
Shelf life	18 months
Storage	Storage in a dry, ventilated place; Avoid direct sunlight.