

▶ Patent certificates for Anti-viral & Anti-bacterial activities

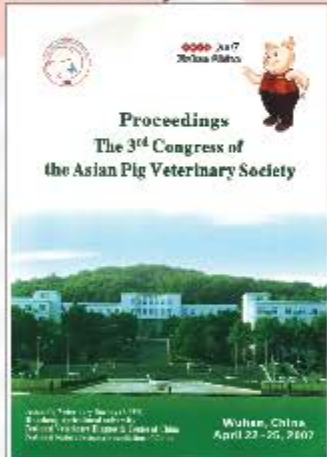


Korean patent



China patent

▶ Published Journal



▶ Dosage

	Disease Prevention	Disease Treatment Aid
Poultry	1L/ton of drinking water	1-2L/ton of drinking water
Swine	1-2kg/ton of feed	2-4kg/ton of feed

▶ Packages

- KimchiStoc-P (Powder type) : 1KG, 5KG, 20KG
- KimchiStoc-L (Liquid type) : 1L, 5L, 20L



# KimchiStoc<sup>®</sup>

## Natural Alternative to Antibiotics

- Powerful Anti-bacterial & Anti-viral Agent
- Immune Stimulator
- No Toxicity, No Residue
- Productivity Accelerator



• KimchiStoc is an innovative immune enhancer working for a **Natural Alternative to Antibiotics** derived from Korean Kimchi Lactic acid bacteria!

➤ **What is KimchiStoc?**

• KimchiStoc contains fermented metabolites of lactic acid bacteria culture which is originated from Korean Kimchi, and this fermented metabolites has strong anti-bacterial and anti-viral activities.



**KimchiStoc®**

- Anti-bacterial Effect
- Anti-viral Effect

➤ **Advantages**

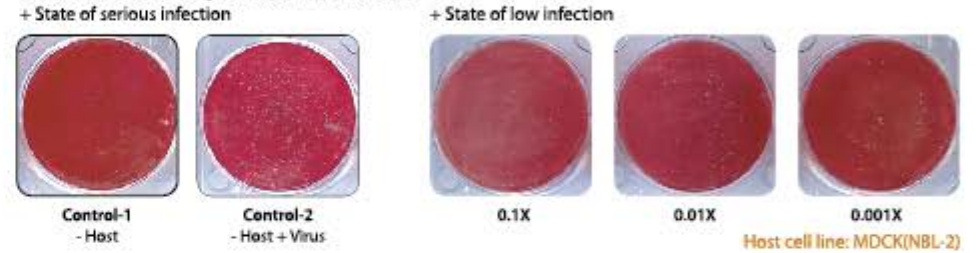
- Powerful anti-bacterial & anti-viral activities
- No toxicity, No residue problem
- Synergistic effect with antibiotics against bacterial & viral diseases
- Mortality decrease & Disease prevention
- FCR Improvement & Growth, Productivity acceleration
- High stability to heat(100°C for 24h) and pH(3-5)

**Experimental study for Anti-bacterial & Anti-viral activity**

➤ **KimchiStoc vs. E.Coli**

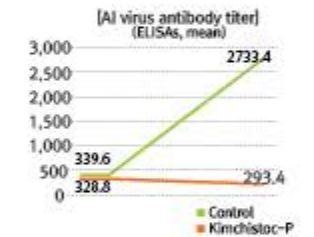


➤ **KimchiStoc vs. Influenza virus**



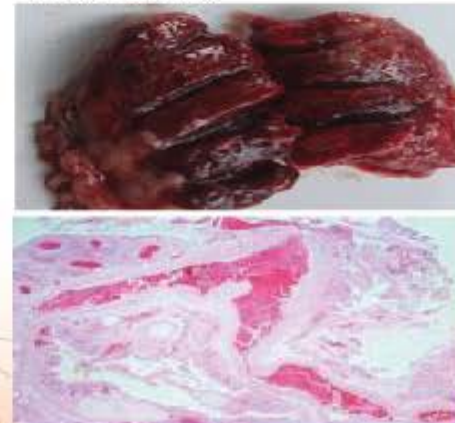
**Breeder : Different Antibody titer for AI virus**

		Control	KimchiStoc-P 0.1%
AI (H9N2) Antibody titer (ELISAs, mean)	Before	339.6	328.8
	After	2,733.40	293.4

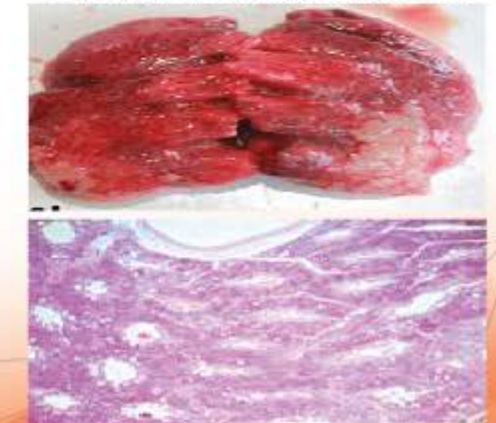


**Histopathological study with AI virus (Chicken Lung)**

➤ **Virus infected**



➤ **Supplemented with KimchiStoc**



(Original Research Article : The Effect of Water Additive Commercial (KimchiStoc) on Natural Avian Influenza Virus Infection of Broiler Chickens: Pathological and Immunopathological Approach / Rina Dwi Susiani, Raden Wasito, Hastari Wuryastuti)