

# BIO Duoferm Deodeok

(INCI : Codonopsis Lanceolata Root Extract, Saccharomyces Ferment Filtrate, Lactobacillus Ferment Lysate)

## Introduction

BIO Duoferm Deodeok is a product that has been dissolved after fermenting probiotic microorganisms with "Duoferm (two-stage fermentation method)", a new concept BIO fermentation technology of Hoengseong Deodeok INKOS Co., Ltd., the best place for deodeok cultivation. It helps to **soothe, improve wrinkles, and moisturize skin troubles.**

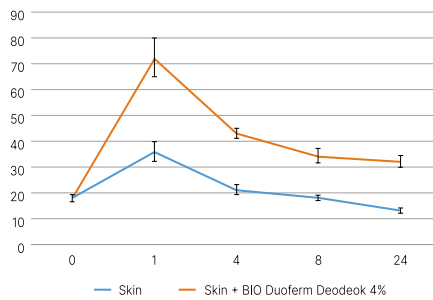
01

### The best place for Deodeok cultivation



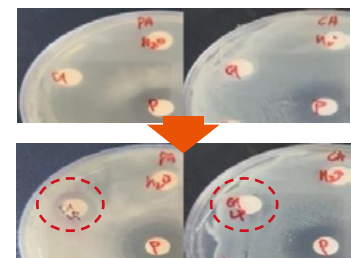
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### Long lasting moisturizing effect on skin



03

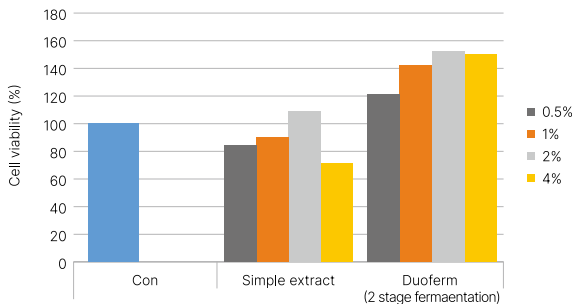
### Skin resident flora harmful bacteria 2 types inhibitory effect



Suppression of skin pathogen *Candida albicans*, *Pseudomonas aeruginosa* control at 4% concentration.

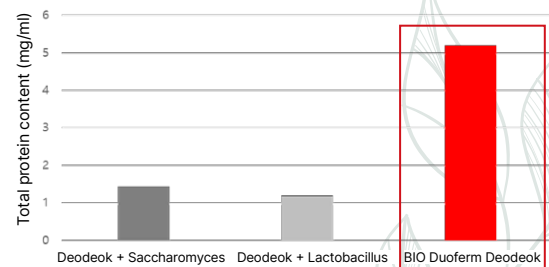
## Efficacy test

### 1. MTT Assay Cell viability Evaluation



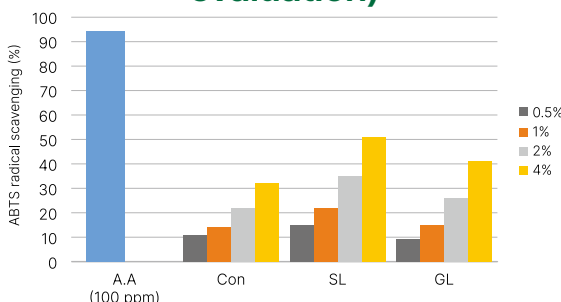
There is no cytotoxicity even at a concentration of 2-4%, and cell regeneration ability is excellent.  
→ Wrinkle improvement effect

### 2. Measurement of amino acid and protein content through BCA assay



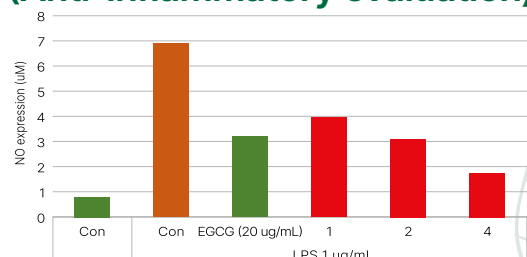
Two-stage fermentation increases amino acid and protein content by 4-5 times than one-stage fermentation → Excellent skin moisturizing effect

### 3. ABTS Assay (Antioxidant evaluation)



About 50% antioxidant effect at 4% concentration  
→ Anti-aging effect

### 4. BIO Duoferm Deodeok NO expression Assay (Anti-inflammatory evaluation)



BIO Duoferm Deodeok 4% concentration shows higher efficacy than EGCG, which shows anti-inflammatory effect