

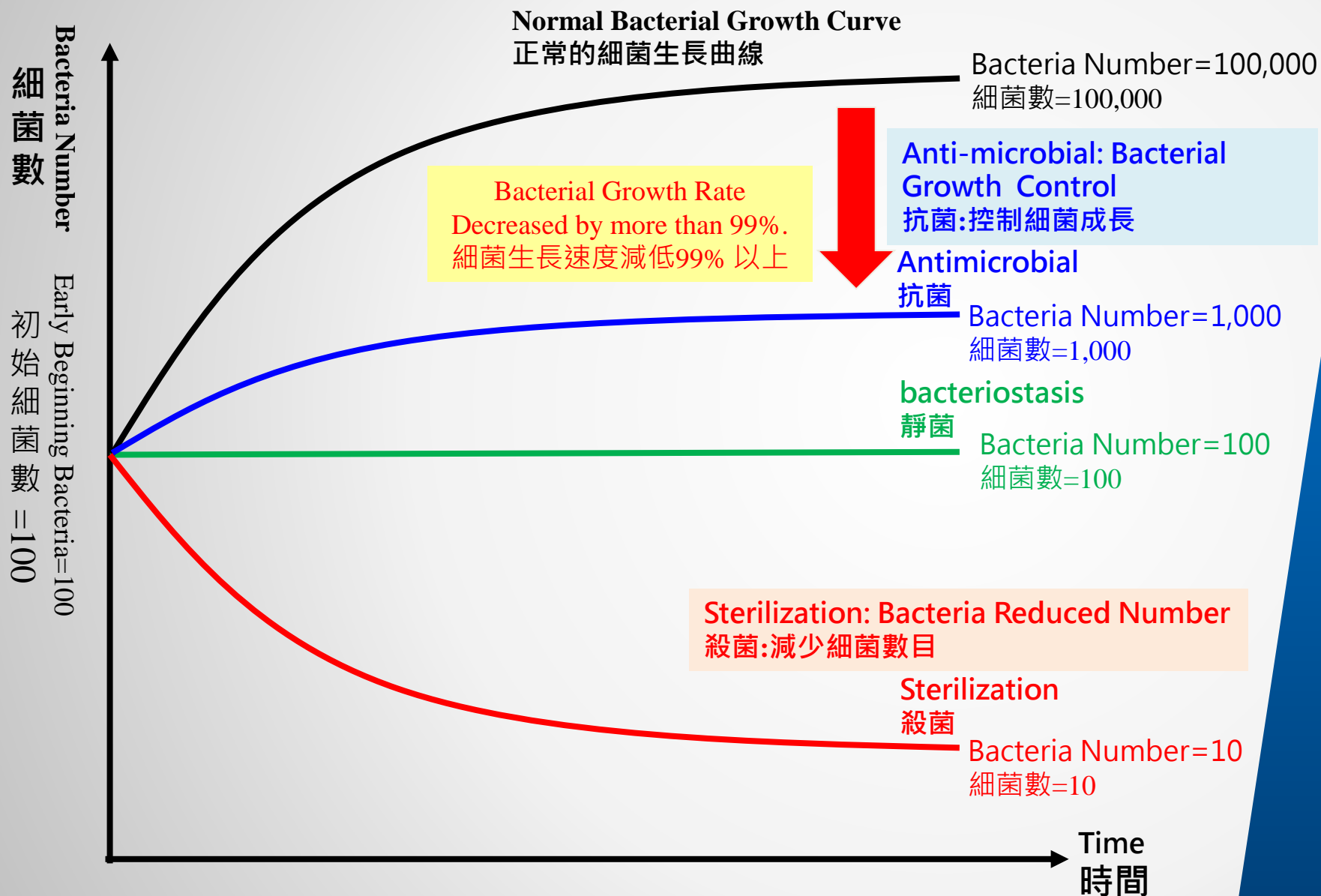


# 抗菌母粒簡介

Anti-  
microbial Masterbatch  
Introduction

名言塑膠  
MIN YEN

# What is the Antimicrobial ? 何謂抗菌？



**The Definition of Antimicrobial:**  
It's the chemical effect that some micro-organisms(including bacteria) would be growth or reproduce to maintain under the necessary level in a certain period of time.

According to the standard of JIS Z2801 or JIS L1902.

Comparing with the product which has no Anti-Microbial Agent, we can determine the antimicrobial effect by the growth rate of bacterial decreased more than 99%.

抗菌的定義：能在一定時間內，使某些微生物（包含細菌）的生長或繁殖保持在必要水準以下之化學作用。

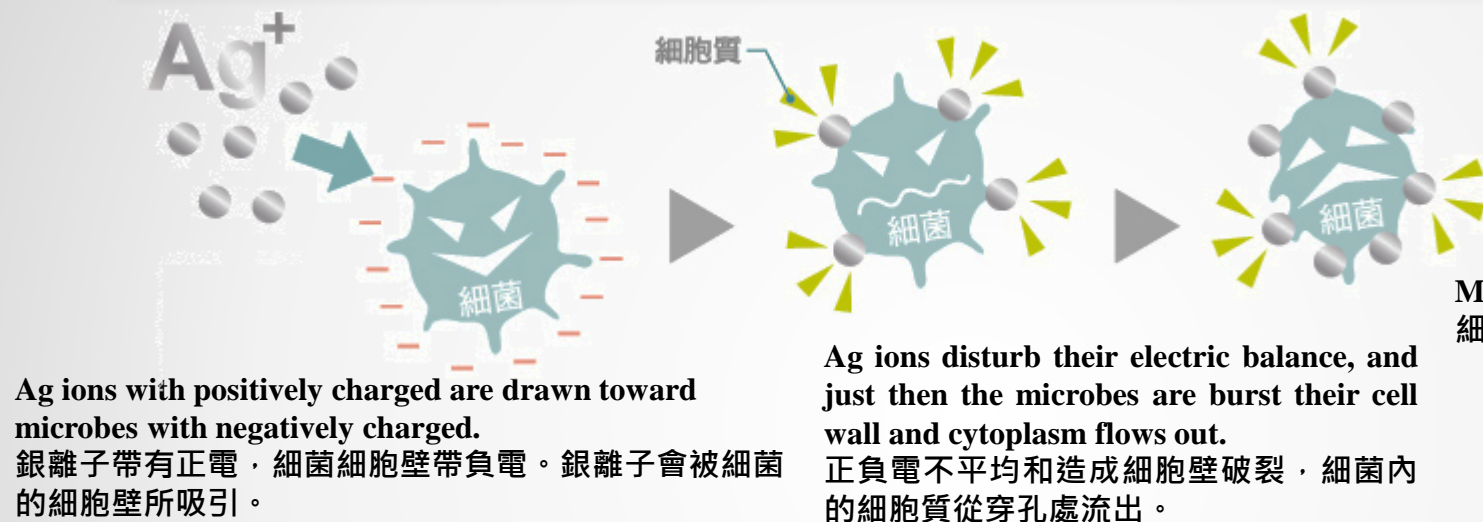
依照JIS Z2801或JIS L1902標準。與無添加抗菌劑的產品相比較，細菌的成長速度降低99%以上，即可判定有抗菌效果。

# Antimicrobial mechanism of silver ion.

## 銀離子抗菌機制

Ag ions disturb and burst microbe's cell wall, then it would die out.

銀離子使細菌的細胞壁產生破裂,造成細菌的死亡。：



Ag ions inhibit enzyme activity and growth rate to kill microbes.

銀離子與細菌中的硫氫基結合，造成細菌的死亡：



Ag ions have two ways to extinguish microbes( including super bacteria) and would not cause antibiotic resistance.

銀離子可以利用這兩種機制殺死細菌體(包括現有的超級細菌)，且不會產生抗藥性。





# 薄膜級抗菌母粒

Antimicrobial Master Batch In Film Grade

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# MIN YEN-The Advantage of Anti-Microbial Master Batch in Film Grade. 名言薄膜級抗菌母粒優點

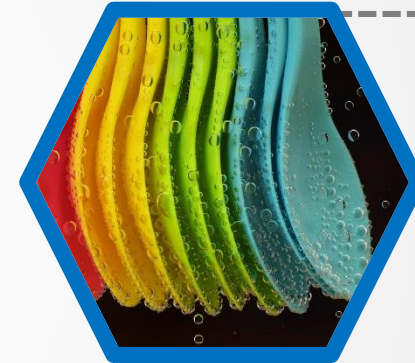
## Excellent Quality 品質優良

The MINYEN Anti-Microbial Master Batch production in film grade will be in strictly quality control. Ensuring that each particle has a stable concentration and effectiveness. It can be used in film blowing, film casting, injection, extrusion and so on.  
名言薄膜級抗菌母粒生產時皆會進行嚴格品管，確保每顆粒子都有穩定的濃度與效力。  
可以使用於吹膜、押膜、注塑、押出等工藝。



## Lower Ratio of Addition 添加率低

The Anti-Microbial will be able to be more transparent, good dispersion, and excellent shape after the special technology processing. It will be able to be lower addition ratio and stable quality.  
抗菌母粒經特殊加工技術處理，分散性佳，成型性優良且可以透明。  
可以實現低添加率與穩定的品質。



## High Safety 安全性高

Highly Safety. It can be used in food contact materials.  
名言薄膜級抗菌母粒安全性高，可以使用於食品接觸材料。

MINYEN-Antimicrobial Master Batch In Film Grade  
名言薄膜級抗菌母粒簡介



Anti-Microbial Master Batch  
抗菌母粒實體照片

Product Band 廠牌	MINYEN 名言
Place of Origin 產地	Taiwan 臺灣
Basic Material 基材	LDPE
Content 含量	20%
Color 顏色	White 白色粒子
Weight 重量	25KG
Package 包裝	Aluminum 鋁箔袋
Suitable Range 適用範圍	Film Blowing, Film Charging, Injection, Extrusion 吹膜、押膜、注塑、押出
Master batch Certification 母粒認證	REACH、RoHS
Anti-microbial Agent Certificated 抗菌劑認證	Acute oral toxicity, Skin irritation, skin allergic reaction testing. 急性經口毒、皮膚刺激、皮膚過敏性測試
Suggested Addition Ratio ( PP、PE ) 建議添加比例	1~2%
Anti-microbial Agent 抗菌劑	



Cooperate with US  
與我們合作

# We are the Future Creator 我們是未來的開創者

1. PE, PP, EVA, TPU Plastics Experts 軟料的母粒專家
2. Additives MB 添加劑母粒
3. Caco3 MB 碳酸鈣母粒
4. Blowing, Injection, Extrusion Color MB 吹膜 射出 押出 中空成形色母
5. Nano Silver Liquid 奈米銀離子液體

