

Antibacterial Sterile Cotton Gauze

Main Benefits:

- ✓ Antibacterial Activity
- ✓ Easy Production in Different Sizes
- ✓ Killing All Pathogens in Absorbed Secretions
- ✓ No Accumulation of Nanoparticles in the Body
- ✓ No Environmental Hazards
- ✓ Without Color

Main Ingredients:

- ✓ Antibacterial Nanoparticles of Medicinal Plants

Required Area:

- ✓ 50 m² (Clean Room)

Production Per Time Unit:

2.000 - 3.000 Pads per Hour

Production Cost Per Pad:

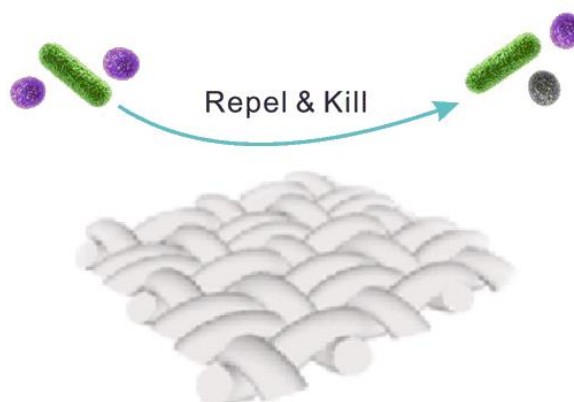
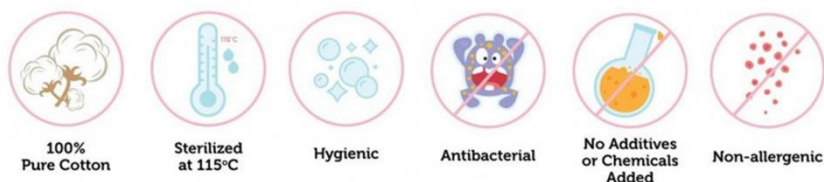
5 - 10 Cents per Pads

Abstract:

The clinical treatment of wounds with medical cotton gauze often encounters inflammation and excessive immune response triggered by bacterial infections, which can significantly prolong the wound healing process. It is, therefore, of great significance to develop functional gauzes with broad-spectrum antibacterial and anti-inflammatory activities. Herein, I report a convenient, robust, and practical strategy to functionalize medical cotton gauze by use of plant's antibacterial nanoparticles.

My Antibacterial Gauze not only excellent biosafety durability but also broad-spectrum bacterial antiadhesion and bactericidal activities. More importantly, this product can effectively reduce the bacterial invasion and regulate inflammatory responses, resulting in faster production of collagen fibers and accelerated wound healing. Therefore, this simple and powerful route has great potential for fabricating the next-generation functional gauzes for clinical treatment of wounds.

FEATURES



Market Size:

The global medical gauze and tapes market size was valued at USD 6.3 billion in 2019 and is expected to grow at a compound annual growth rate (CAGR) of 4.2% from 2020 to 2027.