

MICROBIOLOGY

Basic Cell Structure and Morphology Part 2

VI. BACTERIAL SPORES AND SPORE FORMATION

A. BACTERIAL SPORES



- > Resting cell, highly resistant to desiccation
- > Formed during unfavorable nutritional conditions
- > 3 Genera that can form spores (endospores):
 1. *Bacillus*
 2. *Clostridium*
 3. *Coxiella burnetii*
- > Cannot be killed through boiling
- > Destroyed through **autoclaving** (steam under pressure)
- > Resistance of the spore is due to: **Calcium dipicolinate**
- > Spore wall becomes cell wall of germinating vegetative cell

B. PROCESS OF ENDOSPORE FORMATION

1. An invagination in the cytoplasmic membrane to isolate a small portion of the cytoplasm
2. The membrane starting to surround DNA
3. Formation of the spore septum surrounding the isolated
4. Formation of a peptidoglycan layer
5. Formation of the spore coat
6. The release of the endospore from the cell

C. SPORE FORMATION



1. The vegetative cell undergoes asymmetric division to form a septum.
2. The septum moves towards one pole, creating a smaller forespore and a larger mother cell.
3. The mother cell produces a thick, multi-layered spore coat around the forespore.
4. The final stage shows the mature spore being released from the mother cell.

D. SPORE STRUCTURE



Core/ Spore Protoplast

- > Energy generating system based on glycolysis
 - An anaerobic environment is the most common adverse condition, hence the spore should be able to generate energy through glycolysis
- > Contains the ff.:
 - Chromosome
 - Protein synthesizing apparatus
 - Energy generating system based on glycolysis
 - Since the most common adverse condition is anaerobic environment, the bacteria should be able to generate energy through glycolysis
- > The energy for germination is stored as **3-phosphoglycerate** rather than as ATP

Spore wall

- > Inner most layer surrounding the inner spore membrane
- > Contains peptidoglycan
- > Becomes the cell wall of the germinating vegetative cell

Cortex

- > Thickest layer of the spore envelope
- > Contains unusual peptidoglycans
- > Extremely sensitive to lysozyme (weakness)

Coat

- > Keratin-like protein
- > Contain many disulfides bonds
- > Impermeable
 - Confers on spores the relative resistance to antibacterial drugs

- > Outermost
- > Lipoprotein membrane containing some

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Julia Schneider



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