

Gram POSITIVE Cell Wall Structure Bacteria

I. COCCI

A. STAPHYLOCOCCUS Coccii in clusters / packets both aerobic and facultative

Coagulase positive	Coagulase negative
S. aureus	S. epidermidis
1. MSSA (Methicillin-Sensitive)	S. saprophyticus
2. MRSA (Methicillin-Resistant)	S. lugdunensis
a. HA-MRSA (Hospital-Acquired)	
b. CA-MRSA (Community-Acquired)	

B. STREPTOCOCCUS Coccii in pairs and chains (facultative)

PYOGENIC

Lancefield group	Representative species	Hemolytic pattern
A	S. pyogenes	β
B	S. agalactiae	β
C	S. equisimilis	β
G	S. canis	β

NON-PYOGENIC (Viridans streptococci – aka α hemolytic streptococci)

Mutans group	S. mutans / S. sobrinus	γ
Salivarius group	S. salivarius	γ
Anginosus group	S. anginosus / S. intermedius	α
Mitis group	S. mitis / S. oralis	α
Sanguinis group	S. sanguinis, S. parasanguinis, S. gordonii	α
Bovis group	S. bovis	α / γ

<i>Pneumococcus</i>	S. pneumonia	(classified as part of Mitis group) α
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C. ENTEROCOCCUS

E.faecalis / E. faecium	γ
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D. PEPTOSTREPTOCOCCUS

II. BACILLI

A. Regular, Endospore - forming

- Bacillus
 - B. anthracis / B. cereus
- Clostridium
 - C. difficile / C. perfringens
 - C. botulinum / C. tetani

B. Regular, Nonsporing

- Listeria
 - L. monocytogenes

C. Irregular, Nonsporing (“Coryneform”)

- Corynebacterium
 - C. diphtheriae

ACTINOBACTERIA

- don't stain or weakly stain Gram +

Mycobacteriaceae

- Mycobacterium (Strongly Acid-fast)

Nocardiaceae

- Nocardia (Weakly Acid-fast)
- Rhodococcus (Weakly Acid-fast)

Actinomycetaceae

- Actinomyces (GMS stain +)
- Tropheryma (PAS stain +)