

Gram stain: Francisella tularensis

- •Faintly-staining, tiny, pleomorphic, Gram-negative coccobacilli
- •Mostly single cells (0.2-0.5 x 0.7-1.0µm)

Colony morphology:

- •Smooth, shiny, and butyrous
- •Tiny, grey-white, and opaque on Sheep Blood agar, Chocolate agar, Thayer- Martin agar, and BCYE agar

Growth:

- •Usually too small to be seen at 24h
- •May require cysteine supplementation
- •Scant to no growth on Sheep Blood agar after 48h
- •No growth on MacConkey or EMB agar
- •Slow growth in broth Biochemicals:
- •Oxidase and satellite (or XV) negative
- •Catalase negative or weakly positive
- •Beta-lactamase positive



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