

Francisella tularensis is an intracellular pathogen that can survive and replicate within host macrophages, but may also infect many other cell types.

Charcoal Yeast Agar with Cysteine and Iron

[Chocolate in Sink with Iron and Sistine](#)

Francisella can be cultured using charcoal yeast agar with cysteine and iron for diagnosis.

Signs and Symptoms

Ulceration

[Ulcer Volcano](#)

Ulceration may occur at the point of entry of the bacteria. This is usually the site of the tick or fly bite. It often presents as a papule progressing to an ulcer at the site of infection.

Fever

[Fever-beaver](#)

Fever is a presenting symptom of tularemia. The fever may resolve for a few days but eventually returns.

Painful Lymphadenopathy

[Lymph-lime-add \(+\)](#)

Lymphadenopathy is a common symptom of tularemia. It is common in ulceroglandular tularemia which presents with an ulcerative lesion at the site of the tick bite, with tender draining lymph nodes.

Caseating Granulomas

[Cheese-eating Granny-llama](#)

Granulomas may form and occasionally caseate, imitating tuberculosis. *F. tularensis* may remain alive in tissues for some time, despite this host reaction.

Treatment

Streptomycin

[Stripper-mouse](#)

In most cases aminoglycoside antibiotics like streptomycin or gentamicin, are effective in treating the infection. Streptomycin being the drug of choice. Usually administered intramuscularly every 12 hours from 7–14 days. Please note, treatment will depend on the severity of infection.