Step 1: Screening

- Bacterial cells from pure culture (log growth phase), Fixed with 4% PFA

Hybridization with Bwphi 1448, 50% FA

- positive
  - New cell prep & fixation

- negative
  - Hybridization with eubacterial probe EUB338
    - positive
      - Unspecific labelling, check FISH protocol
    - negative
      - Hybridization with non-sense probe Non-EUB338
        - positive
          - Report: No Francisella
        - negative
          - Hybridization with Bwall 1448, 35% FA
            - positive
              - New cell prep & fixation
- negative
  - Hybridization with eubacterial probe EUB338
    - positive
      - Unspecific labelling, check FISH protocol
    - negative
      - Hybridization with non-sense probe Non-EUB338
        - positive
          - Report: No Francisella
        - negative
          - Hybridization with Bwall 1448, 35% FA
            - positive
              - Unspecific labelling, check FISH protocol
            - negative
              - Report: No Francisella

If positive

Step 2: Differentiation to species and subspecies level

Hybridization with Bwphi 1448, 50% FA

- positive
  - Report: F. philomiragia
- negative
  - Hybridization with Bwnov168, 35% FA
    - positive
      - Report: F. tul. subsp. novicida
    - negative
      - Hybridization with Bwhol1151, 35% FA
        - positive
          - Report: F. tul. subsp. holarctica
        - negative
          - Hybridization with Bwtume168II, 20% FA
            - positive
              - Report: F. tul. subsp. tularensis
            - negative
              - Hybridization with Bwmed1379, 20% FA
                - positive
                  - Report: F. tul. subsp. mediasiatica
                - negative
                  - Report: No Francisella