

## OVERVIEW

- CFA is a mineral oil containing a suspension of whole or pulverized heat-killed mycobacteria which is emulsified together with a solution of the antigen of interest to form a water-in-oil emulsion, and is effective in potentiating cellular and humoral antibody responses to injected immunogens.
- It is the responsibility of the Principle Investigator to assure the safe use of CFA by laboratory staff. The PI is responsible for the appropriate training of research personnel for the safe use of CFA.
- Personnel using CFA must be familiar with the [NIH Guidelines for the Research Use of Adjuvants](#).

## WARNING

Tuberculin-negative individuals have tested positive in subsequent tuberculin tests after accidental CFA exposure.

- Labs must have a laboratory specific SOP in place. Guidance on writing SOPs can be found [here](#).

## PREPARATION

- Preparation in a certified fume hood provides the greatest level of protection.
- PPE: Disposable gloves, lab coat, safety glasses/goggles.
- Transportation to ACS spaces should follow [UF's Chemical hygiene plan](#) and be outlined in the laboratory's SOP.

## POTENTIAL SIDE EFFECTS OF NEEDLE PUNCTURES

- Clinical pain
- Inflammatory lesions
- Abscess formation

## WASTE

- Liquid waste must be discarded through EH&S [Hazardous Waste Management](#).
- Contaminated solids (PPE, towels, etc.) should be packaged and disposed of as non-regulated solid waste.
- Contaminated sharps must be discarded in a sharps container, closed once 3/4 full, and discarded into a biohazard box.

## SPILLS

- Evacuate personnel and allow aerosols to settle. Follow the [EH&S guidance for chemical spill clean-up](#). Call EH&S (352-392-1591) for support with large spills.

## FIRST AID

- Reference the manufacturer's SDS.

## CFA IN ANIMALS

- Administration must be approved in your IACUC protocol.
- Administering CFA to animals presents a greatest exposure risk. CFA becomes less hazardous once it is injected into the animal.
- Once administered, no additional precautions are needed to animal checks and cage changes.