

## Use of Antiretroviral drugs

### Purpose:

To provide guidance for the use of Anti-retroviral drugs in the laboratory and animal facility environment. Antiretroviral therapy is used at UW-Madison in animal research studying viral infections. Some commonly used ones include Tenofovir, Emtricitabine, and Dolutegravir.

### Precautions:

The following information can be used to complete the Safety section of your animal protocol.

1. Chemical hazard agents – (Identify the category of the chemical): (*Select the following*)
  - Irritant (skin, eye, respiratory)
2. Containment preparation – (Containment equipment required for the preparation of the chemical): (*Select the following*)
  - No special containment needed
3. Containment animals – (Containment equipment required for chemical administration and handling animals after exposure to the chemical): (*Select the following*)
  - No special containment needed.
4. PPE needed - (for handling live animals, carcasses, or animal waste/dirty bedding): (*Select the following*)
  - Exam gloves – nitrile
  - Safety glasses/goggles
  - Lab coat or disposable gown
5. Waste Disposal: (disposal of animal waste/dirty bedding from animals after exposure to the chemical): (*Select the following*)
  - No special precautions need for waste/dirty bedding.
6. Carcass disposal: (*Select the following*)
  - Pick up by EH&S for incineration
7. Chemical human risk: (*Add the following*)
  - Dolutegravir is considered an eye irritant. Tenofovir may cause serious eye damage or irritation.

**Additional Information:** Check the SDS of other antiretrovirals that may be used to see if they pose additional risks. If unsure about the risks, contact the Animal Research Safety group for assistance assessing the risks.

**References:**

“Dolutegravir SDS”

<https://cdn.caymanchem.com/cdn/msds/22191m.pdf>

“Tenofovir SDS”

<https://www.fishersci.com/store/msds?partNumber=AC461250010&productDescription=TENOFOVIR+DISOPROXIL+FUM+1GR&vendorId=VN00032119&countryCode=US&language=en>