

Animal Experiments Using Known or Suspect Carcinogens





Summary: You must follow these procedures for animal experiments using:

- Substances regulated by the [California Occupational Safety & Health Administration](#) (Cal/OSHA) or listed by the [National Toxicology Program](#) (NTP) as "[Known to Be Human Carcinogens](#)." (PDF)
- Substances listed as [Reasonably Anticipated to Be Human Carcinogens](#) (PDF), listed by the NTP

Checklist	What to do
<input type="checkbox"/> Follow all appropriate procedures.	Read Chemical Carcinogen Overview to learn how to determine if the substance you intend to use is a known or suspect carcinogen. <ul style="list-style-type: none">• If the material is a known carcinogen, read How to Handle Known Human Carcinogens.• If the material is a suspect carcinogen, read How to Handle Suspect Human Carcinogens.• Follow the rest of the steps in this checklist.
<input type="checkbox"/> Obtain required approvals before beginning work.	<ul style="list-style-type: none">• For use of known carcinogens request prior approval from:<ul style="list-style-type: none">◦ Environment, Health & Safety's chemical safety officer, (415) 476-0964.
<input type="checkbox"/> Follow these training guidelines.	A principal investigator (PI) or a knowledgeable designee must provide appropriate safety training.

		<ul style="list-style-type: none"> • Inform employees about handling the drug or chemical, its physical properties (including solubility), and health effects seen in experimental studies and other applicable sources. <ul style="list-style-type: none"> ○ Review toxicological data from similar compounds if toxicological information is limited. • Explain possible routes of exposure as appropriate: <ul style="list-style-type: none"> ○ Inhalation ○ Skin absorption ○ Ingestion ○ Accidental injection • Provide and train employees in the proper use of personal protective equipment and engineering controls to prevent exposure. • Call LARC department office at 476-9481 to provide Animal Care staff training.
<input type="checkbox"/>	<p>Designate regulated area, label containers and cages.</p> <p>Entrance: Request posting from EHS Specialist</p> <div style="border: 2px solid black; padding: 10px; text-align: center; margin: 10px auto; width: fit-content;"> <p>CANCER-SUSPECT AGENT AUTHORIZED PERSONNEL ONLY</p> </div>	<ul style="list-style-type: none"> • Designate regulated area. Entrances to regulated areas must be posted with signs bearing the legend: <p style="text-align: center;">CANCER-SUSPECT AGENT AUTHORIZED PERSONNEL ONLY</p>

<p>Container:</p> <p>Lab Safety Supply Product # 9BB-132292</p>  <p>98B-132292</p> <p>Animal Cage:</p> <p>Lab Safety Supply Product # 9BB-132289</p>  <p>98B-132289</p>	<ul style="list-style-type: none"> Containers must display the following warning immediately under, or adjacent to, the contents identification: <p>CANCER-SUSPECT AGENT</p> Animal cages must display the following warning: <p>CANCER HAZARD</p> <p>HAZARD IDENTITY (enter info)</p> <p>Request carcinogen stickers from LARC supervisor.</p> <ul style="list-style-type: none"> Maintain the signage according to this criteria: <ul style="list-style-type: none"> Aqueous dosing solutions – Once the bedding has been changed, the warning sign can be removed. Oil-soluble dosing solutions – Maintain the signage for 96 hours.
<input type="checkbox"/> Take these safety precautions when administering the substance.	<ul style="list-style-type: none"> Injection or gavage: Use syringes and intravenous sets with Luer-lock fittings, if possible, when material is given via injection or gavage. <ul style="list-style-type: none"> Perform priming into a sterile, alcohol-dampened gauze sponge. Do not prime sets or syringes into the sink or any open receptacle.

		<ul style="list-style-type: none"> ○ All animals must be housed in micro-isolator cages. ○ Diet: Use a closed-caging system if the substance must be administered in the diet. Mix all diets containing the hazardous material in closed containers inside a chemical fume hood or Class II Type A2 (vented) biosafety cabinet.
<input type="checkbox"/>	<p>Dispose of hazardous waste properly.</p>	<p>Animal bedding, waste, and water — in addition to waste chemicals — may be subject to hazardous waste disposal requirements.</p> <ul style="list-style-type: none"> • For storage and disposal of hazardous chemical waste refer to: <ul style="list-style-type: none"> ○ UCSF Chemical Safety Manual ○ OEH&S On-line Tag Program http://otp.ucsf.edu ○ Send hazardous (chemical) waste disposal notification by logging on to your account. ○ Select the containers as ready for disposal. • Contact your EHS Specialist if you have questions about hazardous waste.