

STANDARD OPERATING PROCEDURES
DIVISION OF COMPARATIVE MEDICINE
UNIVERSITY OF SOUTH FLORIDA

SOP#: 417.1

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TITLE: Preparing Acidified Drinking Water for Rodents
SCOPE: All Animal Program Personnel
RESPONSIBILITY: Facility Managers, All Animal Program Personnel
PURPOSE: To Outline the Procedure for Making Acidified Drinking Water

I. PURPOSE

1. This procedure outlines the proper procedures to be followed when preparing drinking water, disinfected by acidification, for use, when required, in immunocompromised rodents.

II. RESPONSIBILITY

1. The Facility Manager ensures that the technical staff that prepare acidified water are adequately trained in the following procedures and these procedures are adhered to.
2. The technical staff preparing acidified water ensures that they have read, understand, and follow the procedures outlined below, and the **SDS** for hydrochloric acid.

III. PROCEDURES

1. Personal protective equipment, including acid resistant gloves, lab coat, and a face shield is required before handling hydrochloric acid (HCL). See **SOP #1008, Use of Personal Protective Equipment.**
2. HCL should always be stored in an acid cabinet, and only opened when under a fume hood.
3. Place a piece of absorbent paper in the fume hood. Remove HCL from the acid storage cabinet and place in the fume hood.

4. Dilution:

12N HCL	10N HCL	WATER	pH
2ml	2.4ml	Gallon	2.5-3.0
0.52ml	0.64ml	Liter	
0.13ml	0.16ml	250 ml	

5. **Always add the acid to the water** and stir slowly. The pH of the solution must be in the range of **2.5-3.0 and confirmed with a pH meter.**
6. Label the "Acidified Water," .02% HCL, expires (30 days from date of preparation). See **SOP #011, Reagent Labeling.**
7. In case of an acid spill call Health & Safety @ 974-4870 for clean up instructions.
8. In case of contact with skin, flush with water for 15 minutes and get medical attention.
9. In case of contact with eyes, flush with water for 15 minutes. **DO NOT RUB EYES OR KEEP THEM CLOSED!** Get medical attention.

Approved:

Date: