

## INFORMATION ON HOW TO DISPOSE OF CHEMICAL WASTE GENERATED IN THE LABORATORY

Chemical Requires Hazardous Disposal

Special Hazard Disposal Instructions

\*Check pH of your waste, it should be between pH 4-10.

### 5 TYPES OF HAZARDOUS DISPOSAL

1. Sink\*
2. TCA Container
3. Organochloride Container
4. SDS-PAGE Container
5. Mobile Phase

Hazardous Disposal Containers are located under the flammable hood nearest Dr. Parks Lab.

Method	Chemicals	Disposal
<b>ACE inhibitory activity</b>	ACE Enzyme HEPES sodium salt NaCl Hippuryl-L-histidyl-L-leucine (HHL) HCl Quinoline BSC	SINK*
<b>Acid Lipid Extraction</b>	Hydrochloric acid 25:11 with di water Methanol Diethyl ether Petroleum ether	SINK*

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<b>Autolysis</b>	Lowry Reagents Tyrosine- for preparing standard curve Trichloroacetic acid 5%	TCA Container
<b>Bio-Rad method</b>	Bovine serum albumin 1mg/ml Bio-rad protein assay dye reagent	SINK*
<b>CaATPase Activity</b>	Potassium chloride 0.6M Tris-maleate, pH 7.0 Calcium chloride 0.1M ATP 20 mM Trichloroacetic acid 15% Sodium Bisulfite NaHSO <sub>3</sub> p-methylaminophenol hemisulphate Ammonium Molybdate ((NH <sub>4</sub> ) <sub>6</sub> MO <sub>7</sub> ) <sub>24</sub> H <sub>2</sub> O Sulfuric acid (H <sub>2</sub> SO <sub>4</sub> ) 5N Potassium phosphate monobasic KH <sub>2</sub> PO <sub>4</sub>	TCA Container
<b>Fat Soxhlet</b>	Methylene chloride	Organochloride Container
<b>Fatty Acid</b>	Chloroform Methylene Chloride (dichloromethane) Methanolic HCl potassium carbonate	Organochloride Container
<b>Histamine</b>	15% methanol, phosphate, pH 6.9 acetonitrile perchloric acid	Mobile Phase Container Perchloric Hazard Container: Sample digest

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<b>Gel electrophoresis</b>	1X Tris-borate-EDTA (TBE)	Decontaminate with tea bags anything with EtBr
	Ethidium bromide (EtBr); 0.5 ug/ml gel	
<b>Kjeldahl</b>	Boric Acid, 4% (w/v) with Bromocresol Green-Methyl Red Sulfuric acid (H <sub>2</sub> SO <sub>4</sub> )-concentrated Cupric sulfate Potassium sulfate 50% Sodium Hydroxide, purified, nitrogen free for kjeldahl Hydrochloric acid 0.1 or 0.2 N Kjeldahl Tablets, according to Missouri Acros Organics	SINK*
<b>Lipid-binding test (Chitosan)</b>	Hydrochloric acid (0.1 M) Sodium hydroxide (0.1 M) sodium chloride potassium chloride sodium hydrogenphosphate potassium dihydrogenphosphate m-Cresol Purple <i>Bovine serum albumin 1 mg/mL</i>	SINK*

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<b>Lowry</b>	Cupric sulfate Sodium citrate Sodium carbonate Sodium hydroxide Folin-Ciocalteu phenol reagent Bovine serum albumin 1 mg/mL Pierce Modified Lowry Protein Assay Reagent Kit	SINK*
<b>Pepsin-Pancreatin</b>	pepsin enzyme pancreatin enzyme HCl NaOH NaHCO <sub>3</sub>	SINK*
<b>Phosphate Determination</b>	Sodium Molybdate Citric Acid Nitric Acid (70%) Quinoline Acetone Glass microfiber filter Whatman paper filter #541 Sintered glass funnel	SINK*
<b>Salt Extractable Protein</b>	Potassium chloride 0.6M	SINK*

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<b>SDS-PAGE</b>	SDS, Sodiuym dodecyl sulfate	SPS PAGE Container
	Tris Base glycerol	
	B-mercaptoethanol	*must be complexed into gel prior to disposal! Can be disposed in trash once complexed
	Bromophenol blue	
	Acrylamide*	
	Bis-acrylamide*	
	Coomassie brilliant blue	
Methanol 50% Glacial acetic acid 10% Ammonium Running buffer		
<b>Surface Hydrophobicity</b>	Potassium chloride	SINK*
	Tris Base	
	ANS, 1-anilinonaphthalene-8-sulfonic acid	
	Phosphate	
	BioRad Protein Assay Dye Reagent	
<b>TBA</b>	Thiobarbituric acid 0.375%	TCA Container
	Trichloroacetic acid 15%	
	Hydrochloric acid 0.25 N	
	1, 1, 3, 3-tetramethoxypropane 0-10ppm	

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<b>TEAC</b>	phosphate buffer	SPS PAGE Container
	2,2'-azono-bis (3-ethylbenz-thiazoline-6-sulfonic acid) (ABTS) Trolox (6-hydroxy-2,5,7,8 tetramethyl-chroman-2-carboxyli acid	
<b>Total SH</b>	NaCl	
	K <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	
<b>Transglutaminase</b>	KCl	
	Potassium chloride Tris Base Urea DTNB, 5,5'-dithiobis (2-nitrobenzoic acid) Sodium phosphate EDTA, ethylenediamine-tetraacetic acid disodium salt	SINK*
<b>Transglutaminase</b>	Tris	TCA Container
	Hydroxylamine hydrochloride Glutathion N-CBZ-L-glutaminyglycine L-glutamic acid-monohydroxamate Hydrochloric acid 12% Trichloroacetic acid 12% Ferric chloride hexahydrate	