

	Environmental Analysis Teaching and Research Laboratory	Date: 8/10/2016	Number: 09 v.01
	Standard Operating Procedure	Title: Using Everyday Lab Equipment	
	Approved By: TBD	Revision Date: 8/10/16	

Using Everyday Lab Equipment

1. Scope and Application

1.1 The scope of this SOP is to train researchers to learn and follow the basic protocol of using, cleaning, and operating everyday lab equipment, which includes, the micropipette, glassware equipment, measuring balances, the Vortex, and other marginal lab tools that will be further specified.

1.2 The applications of this SOP are for any basic lab setting for students conducting experiments and/or learning new lab procedures.

2. Summary of Method

2.1

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3. Acknowledgements

4. Definitions

4.1 Term1:

5. Health and Safety

5.1 Describe the risk...

Safety and Personnel Protective Equipment

6. Personnel & Training Responsibilities

6.1 Researchers training is required before this the procedures in this method can be used...

6.2 Researchers using this SOP should be trained for the following SOPs:

- SOP01 Laboratory Safety
- SOP02 Field Safety

7. Apparati

7.1 Pipetman (ranging from 2-1000microliters)

8. W

hat is a micropipette? Micropipettes are used to transfer small amounts (< 1 ml) of liquids. The scales on micropipettes are in microliters ($1000 \text{ } \mu\text{l} = 1 \text{ ml}$). These are very expensive, delicate instruments so be very careful during use. The sizes of the micropipettes can be identified via the number on the round button on the plunger; this value is the maximum volume in microliters that can be transferred with that size pipette. The following is an illustration of a micropipette:

[/pipetman.jpg]

8.1 Vortex Mixer

8.2 Glassware

8.3 Balances

9. QC/QA Criteria

10. References

- 10.1** APHA, AWWA. WEF. (2012) Standard Methods for examination of water and wastewater. 22nd American Public Health Association (Eds.). Washington. 1360 pp. (2014).