

ScienceBridge Tech Site Standard Operating Procedure

Title: How to Set Up the Water Bath		
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Scope	For use by biotechnology students at Mira Mesa High School when incubating liquids in a certain temperature, usually during PCR			
Objective	This SOP sets the procedural specifications for how to correctly set up the water bath for keeping liquids incubated at certain warm temperature.			
Materials		1 kit	Package d Quantity	Packaging
	1. Papertowels 2. Water			
Equipment	1. Waterbath machine (Aquabath or Bockel Grant) 2. Thermometer			
Safety	<ul style="list-style-type: none"> • Handle the glass inside with care • Equipment may be heavy • Don't let water overflow • Tank may be hot • Tank cannot be immersed in water 			
Quantity				
Protocol	Setting the waterbath for use <ol style="list-style-type: none"> 1. Before starting the waterbath, make sure that the waterbath is filled between the minimum and maximum fill lines. 2. Make sure the that waterbath is plugged in then turn on the equipment 3. To set the temperature on the gray big waterbath (Bockel Grant) hold the first button with the star and set the temperature by pressing the middle button (down) to decrease the pre-set temperature. If you choose to increase the temperature, still hold first button and press the third button (up). <ol style="list-style-type: none"> a. However, if using the blue waterbath (Aquabath) for temperature 37 and 42 degrees Celcius, turn the left knob (temperature control) to the needed temperature. b. For the PolyProBath, adjust the temperature by pressing the down button to decrease, but increase the temperature, press the up button. 			

	<p>4. After pre-setting the temperature, the indicated temperature on the screen will go down to its current temperature, but will slowly rise up to the need set temperature (about 2 to 4 minutes to fully set.)</p> <p>a. Aquabath is exempted from this step.</p> <p>5. Although the temperature is set, keep the lid and the thermometer for better clarification.</p> <p>CLEANING- Before and After use</p> <ol style="list-style-type: none"> 1. Put a small amount of water and 10% soap in tank of the water bath. Be sure to completely rinse all soap out and do final rinse with distilled water. 2. Wipe down the outside and lid of the tank with a wet sponge and repeat until clean. Only use soap if needed on the outside.
Documentation	<p>All work and any variance from the protocol must be documented</p> <ul style="list-style-type: none"> • (who do you need to inform & what information, include what document/tracking log to fill out)
Storage	<p>Label with the last date cleaned.</p> <p>Supplies Storage Locations</p> <ul style="list-style-type: none"> • All materials should be stored in the water bath. • Floaters are to be stored in box labeled "water bath floaters"
Quality Control	<ul style="list-style-type: none"> • <i>Make sure the plug is dry and plugged in</i> • <i>The water bath should be clean (the water is clear and doesn't have gunk/particles, not cloudy)</i>
When	Clean outside after every use. Check inside and clean as needed.
Tech Site Kit: Group	TS2 and Facilities Management