



# In-Field Collection and Preprocessing of Water Samples for PCR Analysis

## Supplies:

- 1 Disposable Sample container (100 mL) for taking the sample
- 1 Disposable Filter cup containing the filter membrane
- 1 Forceps (Tweezer)
- 1 Filter Cup Stand
- 1 15 mL Centrifuge tube containing 0.5 mL guanidine isothiocyanate (GITC) lysis buffer
- 1 AMBU hand vacuum filtration device with filtrate reservoir
- 2 Cold packs
- 1 Sampler Cooler Bag
- 1 Chain of Custody Form
- 1 Pair Latex Gloves
- Zip lock bags

<p>1. <b>Save all shipping boxes for return shipment.</b></p>	<p>Put on Latex Gloves. Assemble Kit by removing filter cup from sealed bag (take care not to separate filter cup from filter base (see #3 below)) and inserting it onto the Filter Cup Stand. Connect the rubber hose from the Filter Cup Stand to the AMBU hand vacuum filtration device. Place apparatus on a solid level area to prepare for filtration of the water sample. Alternately, the sample may be taken and filtered at an alternate site. See #2 below for timing.</p> <p>Procure sample using the Disposable Sample Container being careful not to contaminate or touch the inside of the container. Sample container may contain a Sodium Thiosulfate pill. This pill is intended to dechlorinate a typical 100 mL sample and is not critical to this test. It is okay to leave this pill in the bottle regardless of water type.</p>	
<p>2.</p>	<p>Within six hours of sample collection, water sample (100 mL or as much as one filter can filter) is filtered through the 47 mm 0.2 µm pore size Supor-200 filter (provided).</p> <p>To vacuum filter the sample first remove the filter cup lid and pour in the sample (Take care not to spill the sample. You do not have to pour the entire sample into the Filter Cup at one time). Squeeze the AMBU handle to create suction. The water will pass through the Filter Membrane and will collect in the Filtrate Reservoir.</p> <p>After filtration is complete discard filtrate collected in the Filtrate Reservoir. The sample is now concentrated on the filter membrane. <i>Note: Please record the total volume filtered</i></p>	 <p><b>DO NOT THROW THIS BOTTLE AWAY! IT MUST BE RETURNED TO BIOVIR.</b></p>
<p>3.</p>	<p>Remove filter cup from Filter base by gently squeezing the sides of the filter cup. The filter cup is attached to the filter base by compression and will easily separate from the base.</p>	
<p>4.</p>	<p>With sterile forceps, aseptically and carefully remove the filter from the filter holder.</p>	

	Carefully fold (like a taco) place the filter into the 15 mL polypropylene tube containing 0.5 mL GITC Buffer (Provided). Move filter as low as possible into the tube using the tweezers. Cap tube and rock back and forth to fully saturate filter membrane. Discard plastic filter base and filter cup.	
5.	Label the 15mL Tube containing the filter membrane with a sample identification number and the volume processed through that filter. Fill out Chain of Custody Form and fold into zip-lock bag.	
6.	Place the 15mL Tube containing the filter membrane in a zip-lock bag and freeze. Store at -20C for up to 2 weeks. Do not store long term in a frost-free freezer.	
7.	Ship the 15 mL tube Frozen via same day or overnight delivery along with completed Chain of Custody Form. It is preferred that the tube be shipped on dry ice, but if dry ice is not available then place the tube in direct contact (between) with frozen cold packs and ship as quickly as possible.	<b>Ship in small cooler with outer cardboard box provided via Overnight or Same-Day delivery.</b> <b>Call the lab and let us know its coming!</b>
8.	Return Sampling Kit: Cooler bag, AMBU hand vacuum apparatus with filtrate reservoir, Filter Cup Stand, Tweezers.	<b>Can ship by regular ground delivery in original carton.</b>

SHIP TO:           Attn: Sample Receiving  
BioVir Laboratories, Inc.  
685 Stone Road, Unit 6  
Benicia, CA 94510

QUESTIONS?    Call: 1-800-GIARDIA (442-7342) or 707-747-5906  
Email: [csj@biovir.com](mailto:csj@biovir.com) or [red@biovir.com](mailto:red@biovir.com)

**Please Note: This PCR Field Sampling Kit is the property of BioVir Laboratories Inc. and is being provided for your temporary use in water sampling for PCR analytes. In the event that this entire kit (described in #8 above) is not promptly returned to BioVir, is lost, stolen, misplaced or heavily damaged you will be charged for its full retail value of \$195.00.**