

VETERANS ADMINISTRATION MARYLAND HEALTH CARE SYSTEM

BALTIMORE DIVISION 10 NORTH GREENE STREET BALTIMORE, MD 21201

GEN000015.2

PATHOLOGY & LABORATORY MEDICINE SERVICE

Water Policy version 2

General Procedure # GEN00015

PURPOSE:

Clinical Laboratory Reagent Water (CLRW) type 1 is low in ionic, organic and particulate matter contamination. It is required in some procedures such as a diluent for reconstitution of Chemistry and Microbiology materials, patient sample dilutions, staining of Histology slides some Blood Bank procedures. It is also used as a cleaning agent for some Chemistry and Microbiology instruments. CLRW will not degrade nucleic acids or interfere with enzymatic reactions. Requirements for CLRW are:

- Maximum microbial content is 10 CFU/mL
- Minimum Resistivity of 10 (in-line) megohm-cm
- Use of 0.2 um filter for removal of particulate matter
- Use of Activated Carbon for removal of organic material

PROCEDURE:

- A. The following quality checks are the responsibility of the laboratory sections utilizing the CLRW:
 - 1. Daily:
 - a) Resistivity readings must be taken and recorded from each faucet delivering CLRW. (See individual section's Water Policy for step by step instructions)
 - b) Check to ensure orange light is steadily lit located on individual faucets or tanks. A blinking or an unlit light indicates the tank needs service (Contact Virginia Water Systems at phone 804-639-2500 account ID#00002547).
 - Weekly:
 - a) pH readings are recorded and within acceptable limits (5.0-7.0). pH readings outside of the acceptable limits require a service call to Virginia Water Systems (see contact information in 1(b) above).
 - 3. Monthly:
 - a) Water sample is cultured from each faucet delivering Type 1 water. Bacteria content should be less than 10 colonies per ml of water. Results of greater than 10 colonies per ml of water require a service call to Virginia Water Systems (see contact information in 1(b) above).

VETERANS ADMINISTRATION MARYLAND HEALTH CARE SYSTEM

BALTIMORE DIVISION 10 NORTH GREENE STREET BALTIMORE, MD 21201

GEN000015.2

- B. The following maintenance measures are the responsibility of Virginia Water Systems:
 - 1. Quarterly:
 - a) Capsule Filter changes
 - 2. Change of tank and UV filters as scheduled by Engineering Services.
 - 3. As needed:
 - a) Decontamination of tanks, water lines and filters. NOTE: Quality check must be performed and within stated acceptable guidelines following any decontamination procedures before laboratory use.
- C. Corrective Action:

Switch to back-up tanks (in Chemistry) if quality checks fail and/or service is needed. Another option is to purchase water from outside vendor. All other water used throughout the laboratory is Commercially Bottled Purified Water meeting the requirements stated above.

REFERENCES:

- 1. College of American Pathologist Checklist, August 2016
- 2. CLSI Guideline GP40-A4-AMD "Preparation and testing of reagent water in Clinical Laboratory; approved Guideline" 4th Edition Volume 26 June, 2012



VETERANS ADMINISTRATION MARYLAND HEALTH CARE SYSTEM

BALTIMORE DIVISION 10 NORTH GREENE STREET BALTIMORE, MD 21201

GEN000015.2

DATE ADOPTED		Author of Procedure/Policy		Chief of Service		
04/09/2007		Paul D. Gruver, MT		Signature: Dong H. Lee M.D.		
Policy/Procedure(s) Retired:					Date retired:	
Review Version Date Number		Signat	Signature of reviewer			
11/8/17 2		n	Made			
					#	
				1		
REVISION HI						
Date Revision # revised			Changes made		Signature	
11/7/17 2			Reformatted, revised maintenance requirements and updated references.		LIL .	