CLINICAL LABORATORY REAGENT WATER

PURPOSE: To meet guideline requirements per laboratory usage

POLICY:
Deionized water is provided to the Dept. of Pathology by a Culligan Aqua-Summa water purification system. This unit provides Type I deionized water. Type I water has a specific resistance of 10 megohms at a temperature of 25 degrees Celsius, maximum bacterial content of 10 CFU/ml, and maximum silicate content of 0.05 mg/L SiO₂. Deionized water is used in laboratory procedures requiring reagent grade water.

GUIDELINES:
The following guidelines are observed and monitored with specific usage defined within applicable sections.

- **CLRW/TYP E I REAGENT WATER:** Minimum resistance of 10 megohms, maximum bacterial content 10 CFU/ml, maximum silicate content 0.05 mg/L, particulate matter 0.22 μm filter. Used for procedures that require maximum water purity. Usage types may include:
  1. Preparation of standard solutions.
  2. Ultramicrochemical analyses.
  3. Measurements at nanogram or subnanogram concentrations.
  4. Tissue and/or cell culture methods.
  5. Preparation of reagents, controls without preservatives.

- **SRW/Special Reagent Water:** Usage for procedures that need different specifications than CLRW: N/A

- **Instrument Feed Water:** Specified by IVD manufacturers as suitable for use with their measurement systems: refer to applicable sections for criteria and monitoring.

- **Commercially Bottled Purified Water:** Suitable for specified laboratory procedures. N/A

QUALITY CONTROL:

- **MONTHLY:** Preventive Maintenance performed by Culligan.

- **PERIODICALLY:** Performed by laboratory personnel
  Check and record the MOHM reading from the meter on the deionizer unit.
  The reading should be between 10-16 MOHM.
  If the reading is less than 10 MOHM notify Culligan for replacement of the filtering units.
  Culligan telephone # 742-4200

- **ANNUALLY/MINIMUM**
  Culture water from the unit outlet and from other outlets in the laboratory sections.
  If a culture is positive, recollect and repeat culture. Notify Culligan for unit treatment if the culture remains positive.

- **SILICATE TESTING:**
  CLRW Maximum silicate content 0.05 mg/L