

www.DandDlab.com

CULTURES, ENDOTOXIN, AND AAMI WATER PROFILES

D&D LABORATORY, LLC 201-C Towers Drive (PO BOX 49862) GREENWOOD, SC 29649

Tel: 864-942-0003 Fax: 864-942-0006

SAMPLE COLLECTION

Please send samples for <u>Culture</u>, <u>Endotoxins</u>, and <u>AAMI Water</u> <u>Analysis</u> to the laboratory in the collection tubes and bottles provided by the laboratory.

*Note – Collect only <u>one</u> tube for Colony Count and LAL. The one tube is used for both tests.

- The CC/LAL tube comes individually wrapped in plastic.
- Do not touch the inside of the tube, cap or sample with fingers or foreign objects.
- Label each tube with the exact same description written on requisition.
- Use one tube, fill at least 2/3 full, and follow your internal or manufacturer sample collection procedures.
- Do not add any preservative.
- Chill culture and endotoxin specimens rapidly by placing in refrigerator prior to packaging.
- Include freezer pack to insure that samples remain cold during shipping. During summer months, a second freezer pack may be needed.
- Ship by overnight courier only (FedEx or UPS)!

AAMI Water Sample Collection

- 1 Use one (1) 60ml screw cap bottle. Rinse bottle prior to filling and fill bottle **FULL.**
- 2 Label each bottle with the exact same description written on requisition.
- 3 Do not touch the inside of the bottle, cap or sample with fingers or foreign objects.
- 4 Do not add any preservative.

COMPLETING REQUISITIONS

**Please annotate the following information in the appropriate box on each D & D Requisition:

- Full name of facility Do not abbreviate or use facility number.
- Address of facility.
- Contact Person and phone number- <u>For problems or out of range</u> results
- E-mail address/ Fax number for test results
- PO # reference number (if applicable)
- Sample Identification Label tube exactly the same as description on the requisition.
- Source of sample water, dialysate, bicarbonate. This is VERY IMPORTANT, please be specific.
- Date of sample collection
- Test(s) ordered (check "X" each box that is needed).
- See attached example of completed requisition (Page 9).

SHIPPING INSTRUCTIONS

CULTURES

- Ship samples with freezer packs in shipping boxes provided by the laboratory.
- Place a freezer pack in the bottom of the box.
- Place foam insert on top of the freezer pack.
- Place samples on top of the foam insert and place the lid on top.
- During hot summer months, place a second freezer pack in the box.
- Do not put samples directly on freezer packs, they may freeze or burst!
- Place requisition in plastic bag and put on top of Styrofoam lid.
- Samples may not be processed if received at room temperature, frozen, or greater than 24 hours old.

ENDOTOXINS (LAL TESTING)

- Ship as outlined for cultures.
- Samples may not be processed if received at room temperature.

AAMI WATER CHEMISTRY PANELS

 Frozen cold packs are <u>not</u> necessary if only AAMI water analysis samples are shipped, otherwise ship as outlined for cultures.

SHIP OVERNIGHT TO:

D & D Laboratory 201-C Towers Drive Greenwood, South Carolina 29649

DO NOT SHIP ON FRIDAY WITHOUT CONTACTING THE LABORATORY FOR APPROVAL.

SPECIMEN REJECTION CRITERIA

- Customer will be contacted with any issue involving samples.
- Cultures or endotoxins received at room temperature
- Cultures received frozen
- Cultures greater than 24 hours old
- Unlabeled samples or improperly labeled samples
- Leaking sample containers
- Samples without requisition
- Inappropriate sample containers

<u>D & D Laboratory can perform testing to either the AAMI RD52/RD62</u> or <u>AAMI 13959 & 11663</u>. The customer defines which test standard they require.

Colony Count Testing

- Specimen is cultured on culture media using the spread plate method
- Specimen volume is measured with a sterile pipette.
- Culture is incubated for 48 hours at 33 37 degrees centigrade for AAMI STD RD52 & RD62. Culture is incubated for 7 days at 20 degrees centigrade for AAMI 13959 and 11663.
- Results are reported as total viable colony count of colony forming units per ml of fluid (CFU/ml).
- We can (upon customer request) e-mail, call or fax a report to your facility if results are outside of the following range:

AAMI RD52 and RD62 (Colony Count) 2 day test			
	Action Level	Failure Level	
Water	50 CFU/mL	200 CFU/mL	
Dialysate	50 CFU/mL	200 CFU/mL	
Bicarb	50 CFU/mL	200 CFU/mL	

AAMI 13959 and 11663 (Colony Count) 2 day or 7 day test		
	Action Level	Failure Level
Water	50 CFU/mL	100 CFU/mL
Dialysate	50 CFU/mL	100 CFU/mL
Bicarb	50 CFU/mL	100 CFU/mL

ENDOTOXIN (LAL TESTING)

- Collect sample directly into sample tube provided by D & D Laboratory.
- D&D Laboratory test tubes are sterile and pyrogen free.
- Endotoxin results are tested by Kinetic Limulus Amoebocyte Lysate (LAL) method and is FDA approved.
- The results are reported in endotoxin units per ml (EU/ml).
- Test range is 0.01 up to acceptable results.
- We can (upon customer request) e-mail, call or fax your facility if results are outside of the following range:

AAMI RD52 and RD62 (LAL)			
	Action Level	<u>Failure Level</u>	
Water	1 Eu/mL	2 Eu/mL	
Dialysate	1 Eu/mL	2 Eu/mL	
Bicarb	1 Eu/mL	2 Eu/mL	

AAMI 13959 and 11663 (LAL)			
	Action Level	Failure Level	
Water	0.125 Eu/mL	0.250 Eu/mL	
Dialysate	0.250 Eu/mL	0.50 Eu/mL	
Bicarb	0.250 Eu/mL	0.50 Eu/mL	

ANALYTES REPORTED ON AAMI WATER CHEMISTRY PANEL

ANSI/AAMI/ISO 13959:2009

TEST	(PPM)*	AAMI LIMITS (PPM)*
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Aluminum (AL)		< 0.010
Arsenic (As)		< 0.005
Barium (Ba)		< 0.100
Cadmium (Cd)		< 0.001
Calcium (Ca)		<2.000
Chromium (Cr)		< 0.014
Copper (Cu)		< 0.100
Fluoride (F)		< 0.200
Lead (Pb)		< 0.005
Magnesium (Mg)		<4.000
Mercury (Hg)		< 0.0002
Nitrate (NO₃)		<2.000
Potassium (K)		<8.000
Selenium (Se)		< 0.090
Silver (Ag)		< 0.005
Sodium (Na)		<70.00
Sulfate (SO ₄)		<100.0
Zinc (Zn)		< 0.100
Specific Conductance		N/A
Beryllium (Be)		< 0.0004
Antimony (Sb)		< 0.006
Thallium (Tl)		< 0.002

^{*} NOTE: PPM and mg/L may be used interchangeably.

^{*} NOTE: Please note that **chloramines** are not offered, as they are too unstable to withstand the time required for shipping. Chloramines should be determined on-site, at the schedule defined at the site.