

## QA/QC Checklist for IDEXX Colilert -- Maine Volunteer River Monitoring Program

Laboratory Name and ID: _____							
Dates of Document Assessment: _____							
Date of On Site Assessment: _____							
Assessor (Initials) Completing Checklist: _____							
	Documents COMPLIANT			Onsite COMPLIANT			Comments and Corrective Actions
	Y	N	NA	Y	N	NA	
<b>IDEXX Colilert-18 or Colilert- 24 with Quanti-Tray®/2000</b>							
Is media stored at 4 to 30°C without exposure to direct light?							
Is unopened media older than 12 months discarded?							
Is Quanti-Tray®/2000 (counting range of 2,419 per 100 mL) used for analysis?							(Note: Dilutions are rarely necessary when this tray is used.)
Is the appropriate fluorescence Quanti-Tray®/2000 comparator available and is it stored in the dark at 2-30°C?							Expired comparators must be discarded.
Is incubator capable of maintaining 35 ± 0.5°C?							
Are only glassware or plasticware that will not auto-fluoresce used during this analysis?							
Are samples dechlorinated (if chlorine is present) and cooled to 10°C immediately after collection?							
Is sample holding time of 6 hours being met?							
Once Colilert Snap Pack is separated from strip, is it tapped to ensure that all of the powder is at the bottom part of the pack prior to opening it?							
Is powder always added to 100 mL of sample or sample dilutions?							
Is sample gently mixed after Colilert media is added and prior to pouring into Quanti-Tray®/2000?							(Note: All media may not dissolve during mixing. It should, however, be completely dissolved after incubation.)
Is sample incubated 18 – 22 hrs. for Colilert-18; or 22 – 28 hrs. for Colilert-24 at 35 ± 0.5°C with fluorescence determined immediately upon removal from incubator?							
Is fluorescence checked in a dark environment by holding a 6 watt UV lamp with a 365 nm wavelength three to five inches away from sample?							
If an effluent sample has a background color when collected, has the inoculated/incubated sample been compared to a control blank?							<b>Note:</b> Blank consists of an aliquot of the same sample in the same type of container that has not been inoculated and was held at room temperature.

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<b>IDEXX Colilert-18 or Colilert- 24 with Quanti-Tray®/2000</b>	<b>Y</b>	<b>N</b>	<b>NA</b>	<b>Y</b>	<b>N</b>	<b>NA</b>	
For samples with E. coli, is fluorescence at least equal to the level of that in the comparator?							(Typically the florescence will be much greater in positive samples.)
Is MPN properly calculated using the IDEXX MPN table?							
Are blanks analyzed for each lot of media and Quanti-Tray® containers?							
Are positive and negative controls analyzed for each lot of media used?							
Are used Quanti-Trays® and sample collection containers to which Colilert-18 was added autoclaved at 121°C for 15-30 minutes at 15 pounds of pressure prior to disposal?							
Quanti-Tray sealer checked every two months during sampling season by adding food-coloring dye to 100 mL of water sealed in tray and observing for leakage.							