TOTAL COLIFORM MEMBRANE FILTRATION PROCEDURE
SM 19th and 20th 9222 B

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
Is the incubator maintained at 35 ± 0.5ºC and 60% humidity?	9222 B 1 j				
Was each new medium lot tested against a previously acceptable lot as described in 9020B? Or for laboratory prepared MF medium, were positive and negative culture controls analyzed?	9222 B 2				
Was medium heated to near boiling (NOT sterilized by autoclaving)?	9222 B 2 a and b				
Was final medium (LES Endo OR M-Endo) pH 7.2 ± 0.2?	9222 B 2 a 9222 B 2 b				
Was finished medium refrigerated?	9222 B 2 a 9222 B 2 b				
Was unused broth discarded after 4 days, unused mEndo agar discarded after 2 weeks, and unused LES Endo agar discarded after 3 weeks per 19th Ed. or after 2 weeks per 20th Ed.?	9222 B 2 a 9222 B 2 b				
Were culture dishes prepared by placing a sterile absorbent pad in each dish and pipetting 2 mL mEndo medium to saturate pad? (Carefully remove any excess liquid from culture dish by decanting the plate.) Alternatively, was 5-7 mL of agar pipetted into sterile petri dishes?	9222 B 2 b 2				
For drinking water, was 100 mL of sample filtered?	9222 B 5 a				
Was an appropriate sample volume filtered, per Table 9222:I? (Filter several volumes when bacterial density is unknown.)	9222 B 5 a				
Notes/Comments:					

METHOD CHECKLISTS ARE AN INTERVIEW TOOL USED BY ASSESSORS AND ARE NOT TO BE CONSIDERED AS A SUBSTITUTE FOR REQUIREMENTS OF THE PUBLISHED METHOD. CHECKLISTS ARE SUBJECT TO CHANGE.

TOTAL COLIFORM MEMBRANE FILTRATION PROCEDURE
SM 19th and 20th 9222 B

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Were sterile forceps used to place and remove membrane filter (grid side up) onto the filtration apparatus?	9222 B 5 c				
Was the filter rinsed between samples with sterile dilution water? *(Sterile squeeze bottle is acceptable.)*	9222 B 5 c				
If agar medium is used, is the filter placed directly on the agar, the dish inverted and incubated for 22-24 hrs at 35 ± 0.5ºC?	9222 B 5				
If liquid medium is used, is the pad saturated with 2 mL M-Endo, filter placed on pad, dish inverted and incubated for 22-24 hrs at 35± 0.5ºC?	9222 B 5 c				
Was a 100 mL rinse water sample analyzed after 10 samples to check for cross-contamination?	9222 B 5 c				
Did sample volumes used yield counts between 20 and 80 (not more than 200) total coliform colonies per membrane?	9222 B 5 a				
At the end of the incubation period, were colonies of various shades of pink to dark red with a metallic surface sheen counted as total coliform?	9222 B 5				
Are colonies counted with a low-power (10 to 15 X) binocular wide-field dissecting microscope or other optical device?	9222 B 5 e				
For water samples, is the following equation used? Total coliforms/ 100 mL = $\frac{\text{colonies counted x100}}{\text{mL sample filtered}}$	9222 B 6				
For drinking water, are suspect colonies verified using either the lactose fermentation or one of the alternative coliform verifications?	9222 B 5				
If confluent growth is to be confirmed, are colonies (or the whole filter) transferred to brilliant green bile broth and incubated 48 hrs at 35 ± 0.5ºC?	9222 B 6 a				
Notes/Comments:					

METHOD CHECKLISTS ARE AN INTERVIEW TOOL USED BY ASSESSORS AND ARE NOT TO BE CONSIDERED AS A SUBSTITUTE FOR REQUIREMENTS OF THE PUBLISHED METHOD. CHECKLISTS ARE SUBJECT TO CHANGE.