

APPENDIX G
OHIO WATER MICROBIOLOGY LABORATORY
MODIFIED mTEC AGAR PREPARATION

BASAL MEDIUM

Ingredients	Amounts (in grams, unless specified)		
	100 mL	500 mL	1 L
Reagent water			
Proteose Peptone #3	0.5	2.5	5.0
Bacto Yeast Extract	0.3	1.5	3.0
Bacto Lactose	0.1	0.5	1.0
NaCl	0.75	3.75	7.5
K ₂ HPO ₄ (anhydrous)	0.3	1.5	3.0
KH ₂ PO ₄ (anhydrous)	0.1	0.5	1.0
Sodium lauryl sulfate	0.02	0.1	0.2
Sodium desoxycholate	0.01	0.05	0.1
Bacto Agar	1.5	7.5	15
Chromogen*	0.01	0.05	0.1

*5-Bromo-6-chloro-3-indolyl' β -D-glucuronide cyclohexylammonium salt

- Heat to boiling with a stirring rod on a hot plate until dissolved.
- Pour into 100-mL dilution bottles.
- Autoclave for 15 minutes at 121°C.
- Store dilution bottles at 4°C for up to 3 months.

PREPARATION OF AGAR PLATES

- Melt the basal medium using a beaker with water on a hot plate or by placing in the autoclave for a 5-minute cycle.
- Pour the plates after the agar is tempered (50-60°C).
- Store the plates at 4°C for up to 2 weeks in a tightly sealed container.