

**APPENDIX G**  
**OHIO WATER MICROBIOLOGY LABORATORY**  
**MODIFIED MTEC AGAR PREPARATION**

---

**BASAL MEDIUM (Modified mTEC AGAR)**

\*Don't need to mix—use manufactured Modified mTEC agar

Protease Peptone No. 3	5.0 g/L
Yeast Extract	3.0 g/L
Lactose	10.0 g/L
Sodium Chloride	7.5 g/L
Dipotassium Phosphate	3.3 g/L
Monopotassium Phosphate	1.0 g/L
Sodium Lauryl Sulfate	0.2 g/L
Sodium Desoxychlorate	0.1 g/L
5-Bromo-6-chloro-3-indyl- $\beta$ -D-glucuronide	0.5 g/L
Agar	15.0 g/L

- Add 45.6 g of pre-mixed dehydrated basal medium to 1 L of reagent water in a large flask.
- Heat with frequent agitation and boil for 1 minute to completely dissolve medium.
- Pour medium into 10, 100-mL dilution bottles.
- Autoclave the 10 dilution bottles with caps loosened for 15 minutes.
- Store at 4°C for up to 6 months.

**PREPARATION OF AGAR PLATES**

- Melt the basal medium using a beaker with water on a hot plate **OR by** autoclaving for 15 minutes.
- 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.

\*recommended medium: Difco™ Modified mTEC Agar.

Ref: 214880

500 g