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APPENDIX

Formulation for General Media, Reagents and Solutions

i. Yeast Peptone Dextrose (YPD) Agar (Difco™)

Approximate Formula Per Liter:

Yeast Extract	10.0 g	Peptone	20.0 g
Dextrose	20.0 g	Agar	15.0 g

65 g powder was suspended in 1 L of purified water and mixed thoroughly. The mixture was heated with frequent agitation and completely dissolved after boiling for 1 min. The mixture was then autoclaved at 121 °C for 15 min. The finished product was then dispensed into approximately 15 mL per petri dish (100 x 15 mm). The poured agar plates were used immediately one day after preparation or stored in sealed plastic bags at 4 °C for 2 weeks of maximum holding time.

ii. Yeast Peptone Dextrose (YPD) Broth (Difco™)

Approximate Formula Per Liter:

Yeast Extract	10.0 g	Peptone	20.0 g
Dextrose	20.0 g		

50 g powder was suspended in 1 L of purified water and mixed thoroughly. The mixture was heated with frequent agitation and completely dissolved after boiling for 1 min. The mixture was then autoclaved at 121 °C for 15 min and cooled down as quickly as possible after sterilization. The finished product was then used immediately one day after preparation or stored at 4 °C for 2 weeks of maximum holding time.

APPENDIX

Formulation for General Media, Reagents and Solutions

iii. Phosphate-Buffered Saline (PBS)

Approximate Formula Per Liter:

Sodium Chloride (NaCl) 8.00 g

Potassium Chloride (KCl) 0.20 g

Potassium Di-Hydrogen Phosphate (KH₂PO₄) 0.24 g

Di-Sodium Hydrogen Phosphate (Na₂HPO₄) 1.44 g

Each chemical powder was suspended in 1 L of purified water, mixed thoroughly and adjusted to pH 7.3 ± 0.2 at 25 °C. The mixture was then autoclaved at 121 °C for 15 min and cooled down as quickly as possible after sterilization. The finished product was then used immediately one day after preparation or stored at room temperature until use.

iii. 10X Tris/Borate/EDTA (TBE)

Approximate Formula Per Liter:

Tris base 109.0 g (Final concentration 0.89 M)

Boric acid 55.0 g (Final concentration 0.89 M)

0.5 M EDTA (pH 8.0) 40.0 mL

The solution was stored at room temperature and diluted to 1X strength for further using.

iv. A 1.5% w/v Agarose Gel

Approximate Formula Per 50 mL:

0.75 g of agarose powder was dissolved in 50 mL of 1X TBE buffer.