Chemical Oxygen Demand (COD) Testing

Safety and Materials Checklist

Personal Protective Equipment (PPE)

- ☐Laboratory coat
- ☐Chemical-resistant gloves (nitrile or neoprene)
- ☐Safety goggles
- ☐Face shield (when handling concentrated acids)
- ☐Closed-toe shoes

Laboratory Safety Equipment

- ☐Fume hood operational
- ☐Emergency contacts posted
- ☐Spill kit available
- ☐Fire extinguisher location verified
- ☐Safety Data Sheets (SDS) accessible

Required Materials and Equipment

- ☐Block digester (150°C ± 2°C)
- ☐Spectrophotometer
- ☐Vortex mixer
- ☐Analytical balance

Chemicals and Reagents

- ☐Potassium dichromate solution
- ☐Sulfuric acid (concentrated)

☐Mercury sulfate

☐Deionized water

Test Parameters

☐Temperature (°C):
☐Wavelength (nm):
☐Sample Volume (mL):
☐Digestion Time (min):

Notes

Date: _____

Analyst: _____

Supervisor: _____

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