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Fast Response COD Analysis System

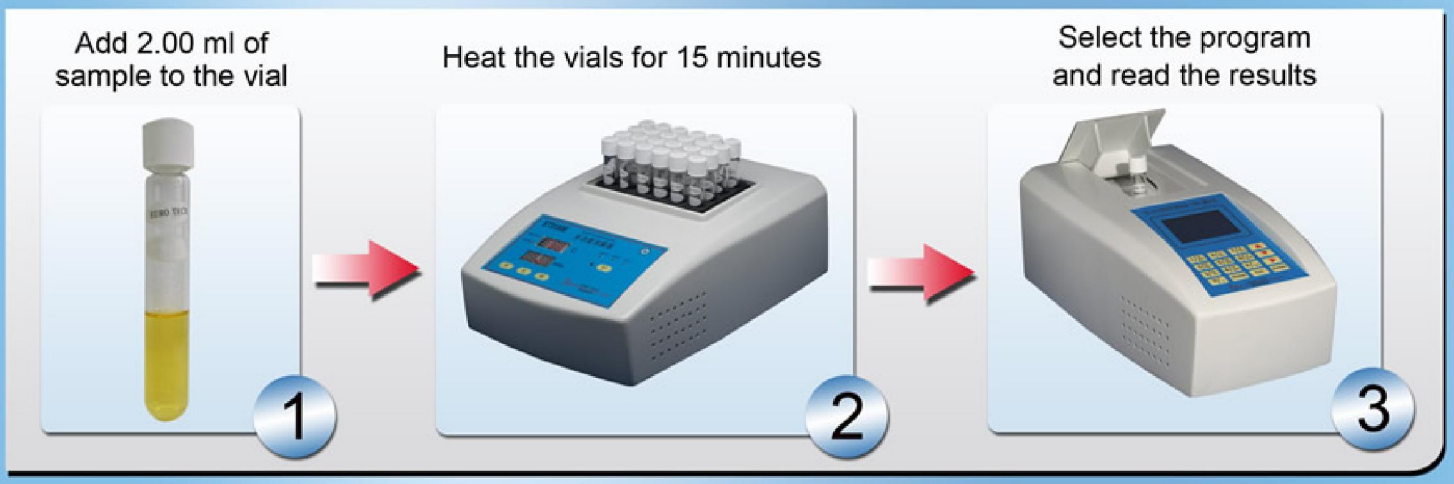
HJ/T399-2007

For surface water, groundwater, and wastewater

PRINCIPLE

In this procedure, the sample is heated for 15 minutes with a strong oxidizing agent, potassium dichromate. Oxidizable organic compounds react, reducing the dichromate ion ($Cr_2O_7^{2-}$) to green chromic ion (Cr^{3+}). When the 15–150 mg/L colorimetric method is used, the amount of Cr^{6+} remaining is determined. When the 100–1000 mg/L colorimetric method is used, the amount of Cr^{3+} produced is determined. Test results for the 15 to 150 mg/L range are measured at 420 nm. Test results for the 100 to 1000 mg/L COD range are measured at 610 nm.

PROCESS



ET3150B Reactor

For COD(165℃) and TP/TN(105℃)

Capacity: 24 16×100mm

- Timer: 1-1680 minutes(31 hours) with audible alarm and automatic shutoff mode
- Warm-up Time: 20minutes
- Temperature Stability: ±1℃
- Accuracy: ±1℃
- With transparent protective lid
- Range Adjustment: 105-165±1℃, shortcuts for 105℃ and 150℃
- Ambient Operating Temperature: 0 to 50 ℃
- Dimension: 340×245×115mm
- Power Requirements: 220±22V, 50Hz, 300W
- Weight: 3.5kg

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ET1151M

The ET1151M spectrophotometer is a microprocessor-controlled, LED-sourced filter photometer suitable for colorimetric testing in the laboratory or the field. The instrument is precalibrated for COD, TP and TN measurements and includes convenient calibration capability for user-entered methods.

	Wavelength	Range	Resolution
COD/LR	420nm	15~150mg/L	1mg/L
COD/HR	610nm	100~1000mg/L	1mg/L
TN/LR	420nm	0~25mg/L	0.1mg/L
TN/HR	420nm	5~150mg/L	0.1mg/L
TP/LR	610nm	0.02~2.00mg/L	0.01mg/L
TP/HR	610nm	0.5~10.0mg/L	0.1mg/L
TP/UHR	610nm	1~20mg/L	1mg/L

- Wavelength Range: 420nm, 610nm
- Wavelength Accuracy: ±3nm
- Wavelength Selection: Automatic
- Accuracy: ±8%
- Reproducibility: ≤3%
- Stability: <0.005A (20 minutes)
- Readout Modes: % Transmittance, Absorbance, Concentration
- Source Lamp: Light Emitting Diode (LED)

TN measuring principle: An alkaline persulfate digestion converts all forms of nitrogen to nitrate. Nitrate then reacts with chromotropic acid under strongly acidic conditions to form a yellow complex with an absorbance maximum at 420 nm.

TP measuring principle: Phosphates are converted to orthophosphates by heating with acid and persulfate. Orthophosphate reacts with molybdate in an acid medium to produce a mixed phosphate/molybdate complex. Ascorbic acid then reduces the complex, giving an intense molybdenum blue color. Test results are measured at 610 nm.

REAGENT

- Add the sample to the packaged reagent directly.
- Use the digest vial to test, which simplifies the process.
- The operation is safe, efficient and convenient.
- We also support bottled reagent.

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