

The DigiPREP CUBE and AccuSPEC COD pre-filled digestion tubes are ideal for labs that test for chemical oxygen demand (COD). A free vial of Certified Reference Material is included with SCP SCIENCE COD digestion tubes.

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COD Reactor - DigiPREP CUBE

Designed for fast determination of chemical oxygen demand (COD) in wastewater and environmental water effluents. The **DigiPREP CUBE** digests up to 25 samples simultaneously and is compatible with 16 mm COD vials. Comes complete with a built-in temperature controller, timer, and graphic display. Use the keypad to change settings which include: time and temperature in 2 user defined programs, 3 predefined programs are also included. Manufactured under an ISO 9001:2000 quality program. CE, UL, and CSA approved.



Catalog No. 010-510-003

- Teflon® Coated Graphite Block
 - Resists aggressive corrosive attack, guaranteed for long life
- Digital Display
 - Displays temperature and time (accuracy of +/- 0.1°C and +/- 0.1 second)
- Offers 3 predefined programs
 - COD DIN @ 148 °C in 120 minutes
 - Fast COD @ 150 °C in 15 minutes
 - COD EPA @ 150 °C in 120 minutes
- Offers 2 user defined programs
 - Customize programs for other methods

Specifications

DigiPREP CUBE			
Catalog Number	010-510-003 (115V)	Over-Temp Protection	Yes
Catalog Number	010-510-004 (230V)	Stability	± 0.2°C
Capacity	25 tubes	Heating Block	Teflon® Coated Graphite
Tube Size	16 mm tubes	Controller	Integrated
Temperature	20 min. ambient - 150°C	Size (in.)	8W x8D x 8.75H
Timer	0 to 360 minutes	Weight (lb/kg)	41 / 18.6
Power (010-510-003)	115 V / 3 A	Certification	CE/UL/CSA
Power (010-510-004)	230 V / 1.5 A		

Certified Reference Materials - *EnviroMAT* Standards

- CRM's for wastewater, groundwater, and drinking water are available in low and high concentrations
- Includes Certificate of Analysis listing Consensus Values, Confidence and Tolerance Intervals, and instructions for use
 - Complete documentation for audit purposes



AccuSPEC Solutions for APHA Methods

- Prepared as per guidelines from "Standard Methods for the Examination of Water & Wastewater", 20th Edition
- Manufactured and tested under an ISO Certified Quality Program
- See page 81 in our Standards, Reagents & Certified Reference Materials Catalog



COD Digestion Tubes, *AccuSPEC*

Chemical Oxygen Demand determines the quantity of oxygen required to oxidize the organic matter in waste samples. A strong oxidant is used to react with both organic and inorganic components of a sample. The amount of oxidant consumed is expressed in terms of its oxygen equivalence and measured either by titration or by colorimetry.

AccuSPEC COD Digestion Tubes use standard 16 mm tubes that have been pre-filled with the digestion reagent. Three different ranges - 0-150 mg/L, 0-1500 mg/L and 0-15000 mg/L - are offered for COD measurement. Each box of 25 is complete with a [Free Certified Reference Material](#).

- Fully compatible with Environmental Protection Agency (E.P.A.) 410.4 and Standard Methods 5220
- Compatible with *DigiPREP CUBE* (see page 48 for more details) standard reactors and spectrophotometers
- Manufactured and tested under an ISO Certified Quality Program
 - Consistency between product lots

The solution contains mercuric sulfate (HgSO₄) to remove up to 2000 ppm of chloride interference. Simply add 2 ml of sample to the tube, tightly replace the screw cap, and mix the contents by inverting the tube a few times. Place the vials in the *DigiPREP CUBE* (catalog no. 010-510-003/004), set to 150°C, and allow to reflux for 2 hours. Once cooled to room temperature, the samples can be measured using a UV-visible spectrophotometer.



Chemical Oxygen Demand

Ordering Information

Description	Hach#	Concentration	CODE	Catalog Number 25/pk
COD Digestion Tubes (25), with Free CRM	21258-15/25	0-150 ppm	✓ ⊗ ⊗	250-130-006*
COD Digestion Tubes (25), with Free CRM	21259-15/25	0-1500 ppm	✓ ⊗ ⊗	250-130-016*
COD Digestion Tubes (25), with Free CRM	24159-15/9	0-15000 ppm	✓ ⊗ ⊗	250-130-026*

Solution	Hach#	Concentration	CODE	Catalog Number			
				125 ml	500 ml	1 L	4 L
COD Control Solution	---	100 mg/l O ₂		250-130-512	250-130-550	250-130-551	---
COD Control Solution	2253929	1000 mg/l O ₂		250-130-602	250-130-600	250-130-601	---
COD Control Solution	---	10 000 mg/l O ₂		250-130-652	250-130-650	250-130-651	---
Ferrous Ammonium Sulfate, Fe(NH ₄) ₂ (SO ₄) ₂ *	2335753	0.00282 N	✓ ⊗	---	250-130-150	250-130-151	250-130-152
Ferrous Ammonium Sulfate, Fe(NH ₄) ₂ (SO ₄) ₂ *	181153	0.25 N	✓ ⊗	---	250-130-300	250-130-301	250-130-302
1, 10-Phenanthroline, C ₁₂ H ₈ N ₂ *	---	0.1%	⊗	250-120-521	250-120-522	250-120-523	---

* Additional concentrations are available upon request

⊗ Glass Container
✓ Dangerous Goods*

⊗ Poison
⊗ Corrosive

Flammable
Oxidant

* as defined by :

• Hazardous Materials Regulations of the U.S. Department of Transportation, Tariff No. BOE-6000-R
• Canadian Transportation of Dangerous Goods Act and Regulations, Revision December 2000
• International Air Transport Association - Dangerous Goods Regulation, 40th Edition

High Temperature Digestion System - *DigiPREP HT*

The *DigiPREP HT* is available in two models - a 40 tube (100 ml) or a 20 tube (250 ml) system. Ideal for digestion applications such as:

- Kjeldahl / TKN
- Plant
- Plastics
- Soil
- Compost
- Oils

