

# Lovibond® Water Testing

## Tintometer® Group



### COD Set-Up MD50

The complete and compact COD Laboratory from a single source



- New VLR COD measurement for enhanced accuracy in low-pollution samples.
- Ready-to-Use, prefilled ST-COD Tubes— Simplifies sampling and testing workflow.
- Mercury-Free Tube Tests – Environmentally friendly when chloride interference is absent.
- Suppression of Chloride interference up to 1000 mg/L in LR & MR methods and up to 10,000 mg/L in HR method.

Part Number: 280240

#### Industry

Chemical Industry | Food and Beverage Industry | Industries Others | Marine Industry | Municipalities | NGO | Oil and Gas | Pharmaceutical Industry | Power and Energy

#### Application

Boiler Water | Cooling Water | Raw Water Treatment | Waste-Water Treatment

#### COD Set-Up MD50

The Lovibond® MD50 COD Photometer Complete Set provides a complete system for fast and accurate Chemical Oxygen Demand (COD) analysis, now with the added advantage of measuring very low concentrations down to 2 mg/L — a game changer for applications requiring high sensitivity.

Using the proven sealed-tube method, simply add your water sample to a Lovibond® ST-COD test tube, digest the sample at 150 °C for two hours, and analyse the sample using the MD50 photometer. The system employs a linear correlation between absorbance and COD concentration, delivering precise and repeatable results every time.

#### Measuring Range

Test Name	Measuring Range	Chemical Method
COD HR TT	0.2 - 15 g/L O <sub>2</sub> <sup>b)</sup>	Dichromate / H <sub>2</sub> SO <sub>4</sub>
COD LMR TT	15 - 300 mg/L O <sub>2</sub> <sup>b)</sup>	Dichromate / H <sub>2</sub> SO <sub>4</sub>
COD LR TT	3 - 150 mg/L O <sub>2</sub> <sup>b)</sup>	Dichromate / H <sub>2</sub> SO <sub>4</sub>
COD MR TT	20 - 1500 mg/L O <sub>2</sub> <sup>b)</sup>	Dichromate / H <sub>2</sub> SO <sub>4</sub>
COD VLR TT	2.0 - 60.0 mg/L O <sub>2</sub> <sup>b)</sup>	Dichromate / H <sub>2</sub> SO <sub>4</sub>

#### Technical Data

Auto – OFF	Yes
Portability	Benchtop
Compliance	CE

# Delivery Scope

- MD50 photometer in a robust carrying case.
- 25 ready-to-use COD tubes for each of the LR and MR methods.
- RD125 thermoreactor for sample digestion.
- Vial stand for 10 vials.

Title	Part Number
Adapter for round cuvettes 16 mm ø	19802190
Adapter for round cuvettes 13 mm Ø	19802192
Thermoreactor RD 125	2418940
Box mit 96 tweezer tips 200 µL	365032
Pipette, 200 µl	365042
Cuvette stand for 10 round cuvettes Ø 16 mm	418957
Pipette tips, 1-5 ml (white) 100 pc.	419066
Pipette tips, 0,1-1 ml (blue), 1000 pc.	419073
Automatic pipette, 1-5 ml	419076
Automatic pipette, 0,1-1 ml	419077
Factory Calibration certificate ISO 9001 for MD50	999756

## Tintometer GmbH

Lovibond® Water Testing  
Schleefstraße 8-12  
44287 Dortmund  
Tel.: +49 (0)231/94510-0  
sales@lovibond.com  
www.lovibond.com  
Germany

## The Tintometer Limited

Lovibond House  
Sun Rise Way  
Amesbury, SP4 7GR  
Tel.: +44 (0)1980 664800  
sales@lovibond.uk  
www.lovibond.com  
UK

## Tintometer China

9F, SOHO II C. No.9 Guanghualu,  
Chaoyang District,  
Beijing, 100020  
Customer Care Tel.: +86 (021) 69910081  
Tel.: +86 10 85251111 Ext. 330  
Fax: +86 10 85251001  
chinaoffice@tintometer.com  
www.lovibond.com  
China

## Lovibond Tintometer Sdn Bhd

Unit B-3-12, BBT One Boulevard,  
Lebuh Batu Nilam 2, Bdr Bkt Tinggi,  
41200, Klang, Selangor,  
Tel.: +60 (0)3 3325 2285/6  
Fax: +60 (0)3 3325 2287  
lovibond.asia@tintometer.com  
www.lovibond.com  
Malaysia

## Tintometer Brazil

Caixa Postal: 271  
CEP: 13201-970  
Jundiaí – SP  
Tel.: +55 (11) 3230-6410  
sales@lovibond.us  
www.lovibond.com.br  
Brazil

## Tintometer Inc.

6456 Parkland Drive  
Sarasota, FL 34243  
Tel: 941.756.6410  
Fax: 941.727.9654  
sales@lovibond.us  
www.lovibond.us  
USA

## Tintometer India Pvt. Ltd.

Door No: 7-2-C-14, 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> Floor  
Sanathnagar Industrial Estate,  
Hyderabad, 500018  
Telangana  
Tel: +91 (0) 40 23883300  
Toll Free: 1 800 599 3891/ 3892  
indiaoffice@lovibond.in  
www.lovibondwater.in  
India

## Tintometer Spain

Postbox: 24047  
08080 Barcelona  
Tel.: +34 661 606 770  
sales@tintometer.es  
www.lovibond.com  
Spain