



Certificate

ISO conformity of Merck COD Cell Tests

Cat.-No.	Measuring range
1.14560.0001	4.0 – 40.0 mg/l COD
1.01796.0001	5.0 – 80.0 mg/l COD
1.14540.0001	10 – 150 mg/l COD
1.14895.0001	15 – 300 mg/l COD
1.14690.0001	50 – 500 mg/l COD
1.14541.0001	25 – 1500 mg/l COD
1.14691.0001	300 – 3500 mg/l COD
1.14555.0001	500 – 10000 mg/l COD
1.01797.0001	5000 – 90000 mg/l COD

Hereby we confirm, that the above mentioned Merck COD Cell Tests fully comply with

ISO 15705

Water quality — Determination of the chemical oxygen demand index
(ST-COD) — Small-scale sealed-tube method

	ISO 15705	Merck
Reagents	Potassium dichromate Mercury sulfate Silver sulfate Sulfuric acid	Potassium dichromate Mercury sulfate Silver sulfate Sulfuric acid
Digestion temperature	150 °C ± 5 °C	148 °C ± 3 °C
Digestion time	120 ± 10 min	120 min
Wavelength and measuring range for photometric determination	to 50 mg/l O ₂ 348 ± 20 nm to 150 mg/l O ₂ 440 ± 20 nm to 1500 mg/l O ₂ 600 ± 20 nm	4.0 – 40.0 mg/l O ₂ 340 nm 5.0 – 80.0 mg/l O ₂ 340 nm 10 – 150 mg/l O ₂ 445 nm 15 – 300 mg/l O ₂ 445 nm 50 – 500 mg/l O ₂ 445 nm 25 – 1500 mg/l O ₂ 605 nm 300 – 3500 mg/l O ₂ 605 nm 500 – 10000 mg/l O ₂ 605 nm 5000 – 90000 mg/l O ₂ 605 nm
Accepted chloride levels	1000 mg/l Cl ⁻	minimum 2000 mg/l Cl ⁻

Merck KGaA, Darmstadt, Germany

Darmstadt, 30.04.2011

i.V.

Gunter Decker
Product management

i.A.

Ralf Olt
Head Photometry Lab