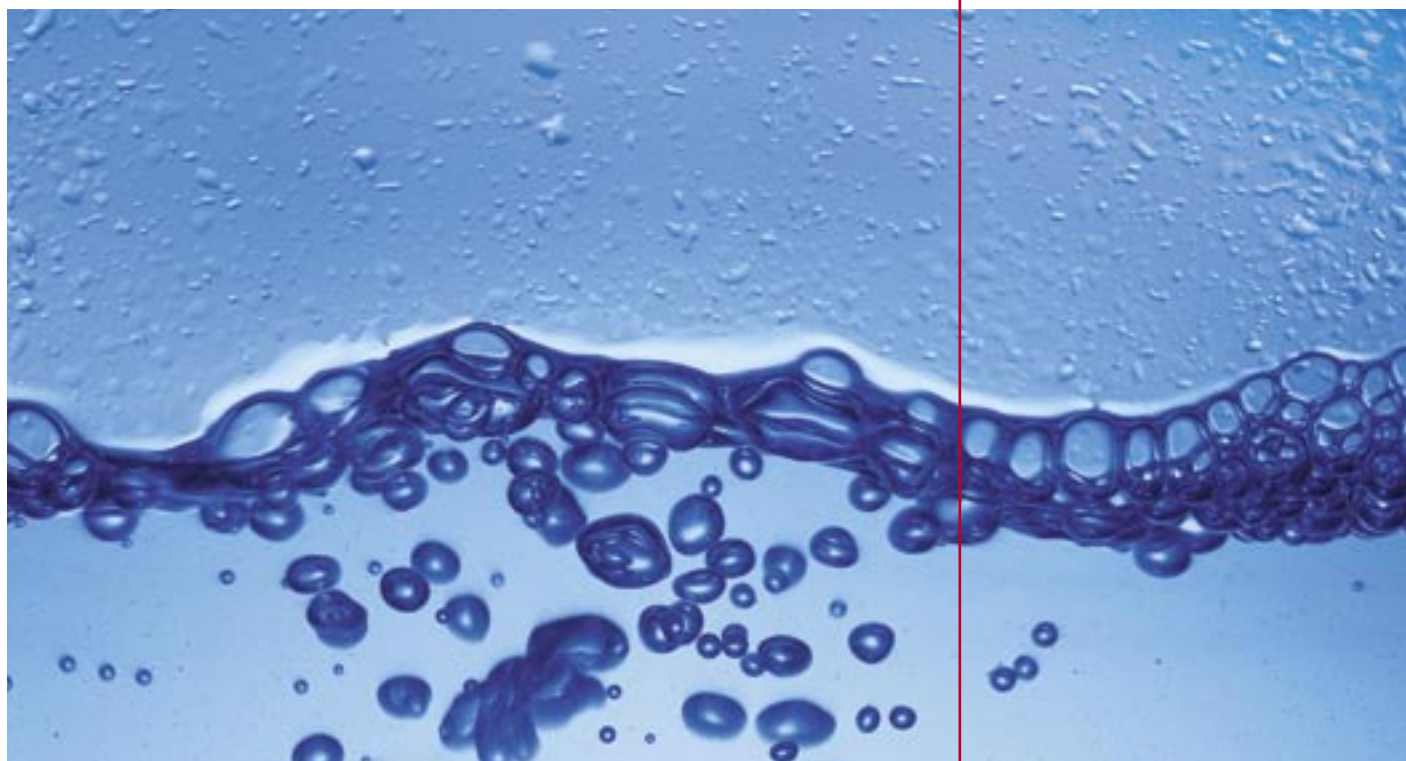


Analytix *LabInfo*



AQUANAL®-plus Spectro COD

AQUANAL®-plus SPECTRO COD is designed to measure of the quantity of organic pollutants present in water.

How it works

In the reaction the dichromate ion ($\text{Cr}_2\text{O}_7^{2-}$) oxidizes the organic pollutant and is reduced to the chromic ion (Cr^{3+}). The reaction is followed by monitoring the absorbance at the wavelengths where the two ions absorb (430 and 605 nm). The quantity of oxidant (organic pollutant) consumed is expressed in terms of its oxygen equivalence. The chemical oxygen demand, or COD, is expressed in mg/L O_2 .

Four different AQUANAL®-plus SPECTRO COD tests are available to detect these organic pollutant concentration ranges:

- 2-40 mg/L
- 10-150 mg/L
- 100-1500 mg/L
- 1000-15000 mg/L

Results can be obtained by using the AQUANAL®-plus SPECTRO 2, AQUANAL®-SPECTRO 3, AQUANAL®-plus SPECTRO CSB/COD or the AQUANAL®-professional SPECTRO 1000 Photometers. We also supply the heating unit required for this test, the AQUANAL®-plus Thermoblock, to provide reliable heating of the chemical reaction.

Technical Data of AQUANAL®-plus SPECTRO CSB/COD Photometer

- LED photometer (LED = light emitting diode)
- Optics: Low range: LED λ = 430 nm, medium and high range: LED λ = 605 nm
- 9 V block battery (life approx. 600 tests), AC operation not possible
- Ambient conditions: Temperature 5-40°C, relative humidity 30-90%, non-condensing
- Dimensions: D x W x H = 180 x 110 x 100 mm, supplied in a case

Technical Data of AQUANAL®-plus Thermoblock

- Temperature: 100°C and 148°C fixed, can be selected via a membrane keyboard
- Tolerance: $\pm 10^\circ\text{C}$
- Heating: 300 W, electronically regulated, with protection against overheating
- Heating block: Eight wells for tubes of 16 mm diameter, 1 well in the center for tubes of 22 mm diameter
- Time input: 30, 60, 120 minutes or continuous operation at the selected temperature, automatically switched off at the end of the selected reaction time, acoustic signal
- Electrical connection: 230 V, 50 Hz (350 W) or 110 V, 60 Hz (on request)
- Plug: Euroformat can be switched from 230 to 110 V
- Safety: CE marking, transparent covering hood

Cat. No.	Product	Measuring range
37735	AQUANAL®-professional COD tube test	2-40 mg/L
37736	AQUANAL®-professional COD tube test (25 or 150 tubes)	10-150 mg/L
37737	AQUANAL®-professional COD tube test (25 or 150 tubes)	100-1500 mg/L
37738	AQUANAL®-professional COD tube test (25 or 150 tubes)	1000-15000 mg/L
37570	Spectro CSB/COD für AQUANAL®-reagents	
37571	AQUANAL®-plus Thermoblock	
37782	Spectro 2 Photometer for AQUANAL®-reagents (English version)	
70012	AQUANAL®-professional Spectro 1000	
70403	AQUANAL®-Spectro 3 Photometer	

Table AQUANAL®-plus SPECTRO COD Product Information

Technical Support
aquanal@sial.com

Contact

Should you have questions regarding AQUANAL®, tube tests, photometers or any of the other AQUANAL® products please contact:

Mr. Michael Jeitziner
Product Management
Tel.: ++41 (0)81 755-2805
Fax: ++41 (0)81 755-2848

Ms. Petra Haubold
AQUANAL®-Application lab
Tel.: ++49 (0)5137 8238-643
Fax: ++49 (0)5137 8238-843

www.sigma-aldrich.com/aquanal