

## PRODUCT INFORMATION

LABORATORY ANALYSIS  
ISO COD CUVETTE TEST  
LCI 400 / LCI 500



# ISO 15705: approved COD cuvette tests

- **Exact concentrations of the ISO approved formula**
- **Extremely accurate**
- **Pre-dosed & ready to use**
- **No contact with toxic reagent**
- **Disposal/recycling service**

### Minimum amounts of reagents

LANGE COD cuvette tests have been used successfully for many years in water laboratories worldwide. The ready-to-use round cuvettes are made of special optical glass and contain exactly the right amounts of reagents. To carry out an analysis, the sample simply has to be pipetted into the cuvette. The closed cuvette system and the minimal amount of reagents guarantees maximum safety for the user and the environment.

### Environmentally friendly

In comparison to conventional analysis, these cuvettes contain considerably reduced amounts of chemicals. The user-friendly cuvette tests have been standardised and are a cost effective alternative to titration. HACH LANGE now offers two more tests alongside the familiar COD products. These ISO COD cuvette tests are ISO 15705 compliant.



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# Superior cuvette tests

## Money, time and space saving

From an ecological point of view, the COD cuvette test is far superior to the previous standard method. The cuvette test achieves savings of more than 90 % of the environmentally harmful chemicals used by the previous method: potassium dichromate, sulphuric acid, silver and mercury. Used cuvettes can also be recycled, in the HACH LANGE Environment Centre. Please contact us for a price for recycling.



Comparison of reagent consumption:  
titration method and cuvette test

## HACH LANGE Services



Contact us to place an order, request information or receive technical support.



[www.hach-lange.com](http://www.hach-lange.com)  
up to date and secure, with down-loads, information and e-shop.



Quality assurance, complete with standard solutions, instrument checks and test solutions.



On site technical support.



Assurance of legal compliance, together with environmental protection via collection service for recycling of used reagents.



Service packages and extended warranty up to 5 years.

## REQUIREMENTS OF ISO 15705

	LCI 400	LCI 500
Formulation with the exact concentrations of the ISO formulation	●	●
Pressure resistance of the cuvettes up to 600 kPa (=6 bar)	●	●
Sample volume at least 2 ml	●	●
See reference to inverting the hot cuvette in the working procedure	●	●
Measurement wavelength from 600 ±20 nm (large measuring range = LCI 400)	●	
Measurement wavelength from 440 ±20 nm (large measuring range = LCI 500)		●
Acid-resistant cuvette material	●	●
Mercury to suppress chloride interference up to 1,000 mg/l	●	●
Optical quality of the cuvette within ±0.005 Abs.	●	●
Linear evaluation	●	●
Thermostat dimensions corresponding to the cuvette	●	●



Automated: robots for COD analysis



For COD and many other parameters:  
spectrophotometer, cuvette tests, thermostat

## Hazard symbols for LCI 400/500



Corrosive



Toxic



**LANGE**



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