



New Spectroquant® Test

COD Cell Test for seawater / high chloride contents

Method: The chloride content of the water sample is depleted by means of sulfuric acid and an HCl absorber. The water sample is subsequently oxidized with a hot sulfuric solution of potassium dichromate, with silver sulfate as the catalyst. Residual chloride is masked with mercury sulfate. The concentration of green Cr^{3+} ions is then determined photometrically.

The chloride depletion method corresponds to DIN 38409-41-2. The method corresponds to DIN ISO 15705 and is analogous to EPA 410.4, APHA 5220 D, and ASTM D1252-06 B.

Range: 50 – 3000 mg/l COD (or O_2)
No. of tests: 25
Expiry date: 36 month
Storage conditions: + 15 - + 25 °C
Order No.: **1.17059.0001**
Non-binding List price Contact your local Merck companies or Merck agents



Applications:

COD is a very important parameter in water and waste water analysis but could not be measured by photometry in samples with high chloride contents. Dilution increases the error and therefore often is not useful. The chloride interferences can't be reduced below 2000 mg/l and therefore is still too high for the usage of a normal COD Cell Test.

Merck Millipore offers a new range of COD Cell Tests where customers can measure COD in samples of seawater or unlimited chloride levels. The chloride interferences will be removed by deleted by means of sulfuric acid and an HCl absorber. The so prepared sample will be add to the new developed COD tube with a special sulfuric acid water mixture to keep the sulfuric acid water ratio according to the norm.

Sample material: COD samples with high chloride like e.g. seawater, costal and marine water, brackish water, wastewater

Benefits:

The new COD Cell Test allows measuring **high COD content with high chloride levels** where normal COD tubes can't be used. For lower COD values please use the low range COD Cell Test item# 1.17058.0001 with the measuring range from 5.0 – 60.0 mg/l.

More details: See package insert in the Internet: www.analytical-test-kits.com