

# SPECTORD® PLUS

## Applications in Environmental Analysis



Environmental safety is more important than ever before. The monitoring of our environment, especially our drinking water resources, surface and waste waters but also earth and waste is an important task for national and private environmental laboratories.

UV/Vis spectroscopy is an established method for the quantitative determination of anions, but also cations, heavy metals and tensides.

Most environmental parameters do not have a self-absorbance in the UV/Vis spectral range. But they can be colored with specific reagents. The corresponding methods are described in a lot of international standard norms.

Another possibility to analyze environmental samples are ready-to-use test kits. They enable fast and comfortable analysis and guarantee a consistently high level of quality. These test kits contain specific reagents for the determination of certain chemical substances and can be measured directly in the photometer:



Aluminium	Alcohol	Ammonium	Arsenic
BOD	Boron	Bromine	Cadmium
Calcium	Chlorine	COD	Copper
Cyanide	Fluoride	Gold	Iodine
Iron	Lead	Manganese	Magnesium
Molybdenum	Nickel	Nitrate	Nitrite
Nitrogen	Oxygen	Ozon	Phenol
Phosphate	Potassium	Residual hardness	Silica
Silver	Sodium	Sulfate	Sulfide
Sulfite	Surfactants (anionic)	Tin	Zinc

## Water analysis using ready-to-use test kits:

- Fast analysis
- Easy handling
- Wide measurement range
- WinASPECT® PLUS software includes pre-programmed methods for water analysis for more than 167 test kits of MERCK

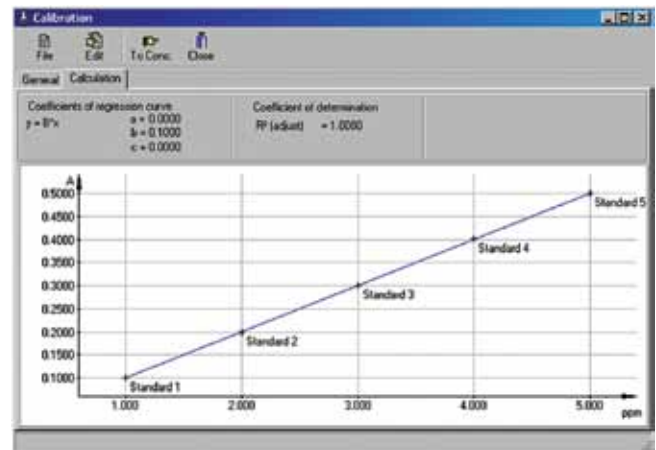
**Your Benefit: Safe, Easy, Rapid!**



Test kits and holder for round cells

## Analysis of drinking water and surface water (oceans, lakes, rivers) for anions using photometric methods:

- Analysis of anions according to standard norms (ASTM, ISO)
- Cost-efficient and simple methods
- WinASPECT® PLUS software offers easy to use functions for calibration and concentration determination with different calibration curves
- Accessories as the sipper system for 1 up to 5 cm cells provide an extended dynamic range and offer fast analyses



## Recommended instrumentation

Device option	SPECORD® 50 PLUS	822-0050P-2
	SPECORD® 200 PLUS	823-0200P-2
	SPECORD® 210 PLUS	823-0210P-2
Accessory option	Sipper System	820-60141-P
	Flow-through cell 10 mm quartz, 750 µl	820-70142-0
	Holder for round cells	820-60136-0
	Autosampler APG 64	820-60300-0
Software	WinASPECT® PLUS software includes methods for water analysis in standard software package	—

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Subject to changes in design  
 and scope of delivery as well as  
 further technical development!

