

Spectroquant® Picco – All waters in your grasp

The new range of colorimeters: compact, easy to handle, fast



Spectroquant® Picco

The easy-to-handle compact units for cell and reagent tests

In a class of their own: only the Spectroquant® Picco colorimeters by Merck are capable of measuring cell tests and reagent tests in just one device. You can use both the convenient cell tests as well as the favorably priced reagent test kits for low and high measuring ranges with this system.

In conjunction with the Spectroquant® Picco colorimeters and the Spectroquant® test kits, you can now check the quality of water in a jiffy: you have the essential parameters firmly in your grasp and save yourself investments of both time and money.

The Merck colorimeters and test kits show their special merits in the low measuring ranges. This sensitivity puts the Picco range of colorimeters right at the top of the class from the price/performance aspect.

PO₄-P

Phosphate

The test kits and measuring ranges have been selected in such a way that you can now measure low values e.g. in drinking water (from 0.05 mg/l PO₄-P up) as well as higher values in wastewater (up to 70.0 mg/l PO₄-P). A total of three test kits offer an adequate solution for every user. The Spectroquant® colorimeter Picco PO₄-P enables you to easily and rapidly determine the content of ortho-phosphate and total phosphorus.

Cl₂ / pH / O₃

Chlorine, pH, and Ozone

These three basic parameters of water quality can now be checked using just one compact unit: chlorine from a concentration of 0.02 mg/l up, pH values between 6.4 and 8.8, and ozone concentrations between 0.02 and 3.40 mg/l.



The advantages of Spectroquant® Picco

- Cell and reagent tests can be measured in just one unit
- The broadest spectrum of measuring ranges per parameter
- USEPA approval and full ISO 15705 conformity for all COD cell tests
- Determination analogous to DIN/EN/ISO or EPA standards
- Simple handling thanks to powder and liquid reagents
- Compact units in small, easy-to-manage cases

N

Nitrogen

In a class of its own: Picco N, the compact unit for the determination of total nitrogen. With just two cell tests you can perform tests in measuring ranges from 1.0 up to 150 mg/l N. After the sample has first been digested in the thermoreactor, just a few easy working operations and you have your results in a matter of minutes.

COD / CSB

Chemical Oxygen Demand

Always the correct choice: three optimally selected measuring ranges are available to measure the chemical oxygen demand, meaning that all areas of simple wastewater analysis are covered. After preparing the sample for the test (boiling time and cooling off) the Spectroquant® Picco colorimeter takes care of the rest of the measurement.

NO₃-N

Nitrate

Detection by the 2,6-dimethylphenol method is by far the more environmentally compatible alternative to the cadmium-reduction method.

Four different tests are available for you to cover the measuring ranges from 1.0 up to 225 mg/l NO₃-N. Here too you can select between reagent and cell tests.

NH₄-N

Ammonium

No matter whether you're dealing with low values in drinking water (from 0.20 mg/l NH₄-N) or high concentrations (up to 100 mg/l NH₄-N) in wastewater: with the Picco unit you can measure the ammonium load exactly. All you must do is add 1 resp. 2 doses of the crystalline reagent into the sample, dissolve it by briefly shaking the sample – and the measurement is finished within just a few minutes.



Ordering information

Picco Cl₂ / pH / O₃

Product	Ord. No.	Measuring range (Picco)	No. of tests	Cells
Spectroquant® Colorimeter Picco Cl ₂ / pH / O ₃	1.73600.0001			
Spectroquant® Chlorine Test, free	1.00598.0002	0.02 - 5.00 mg/l Cl ₂	200	ø 24 mm
Spectroquant® Chlorine Test, free	1.00598.0001	0.02 - 5.00 mg/l Cl ₂	1200	ø 24 mm
Spectroquant® Chlorine Test, total	1.00602.0001	0.02 - 5.00 mg/l Cl ₂	200	ø 24 mm
Spectroquant® Chlorine Test, total	1.00602.0002	0.02 - 5.00 mg/l Cl ₂	1200	ø 24 mm
Spectroquant® Chlorine Test, free and total	1.00599.0001	0.02 - 5.00 mg/l Cl ₂	100 of each	ø 24 mm
Spectroquant® Chlorine Cell Test, free	1.00595.0001	0.05 - 6.00 mg/l Cl ₂	200	ø 16 mm
Spectroquant® Chlorine Cell Test, free and total	1.00597.0001	0.05 - 6.00 mg/l Cl ₂	100 of each	ø 16 mm
Spectroquant® pH Cell Test	1.01744.0001	6.4 - 8.8	280	ø 16 mm
Spectroquant® Ozone Test	1.00607.0001	0.02 - 3.40 mg/l O ₃	200	ø 24 mm
Spectroquant® Ozone Test	1.00607.0002	0.02 - 3.40 mg/l O ₃	1200	ø 24 mm

Picco COD / CSB

Product	Ord. No.	Measuring range (Picco)	No. of tests	Cells
Spectroquant® Colorimeter Picco COD/CSB	1.73601.0001			
Spectroquant® COD Cell Test	1.14541.0001	0.03 - 1.50 g/l COD	25	ø 16 mm
Spectroquant® COD Cell Test	1.14691.0001	0.30 - 3.50 g/l COD	25	ø 16 mm
Spectroquant® COD Cell Test	1.14555.0001	0.50 - 10.00 g/l COD	25	ø 16 mm

Note: Samples must be digested in a thermoreactor for COD determination. See Spectroquant® thermoreactors.

Picco NH₄-N

Product	Ord. No.	Measuring range (Picco)	No. of tests	Cells
Spectroquant® Colorimeter Picco NH ₄ -N	1.73602.0001			
Spectroquant® Ammonium Cell Test	1.14558.0001	0.20 - 8.00 mg/l NH ₄ -N	25	ø 16 mm
Spectroquant® Ammonium Cell Test	1.14559.0001	4.0 - 80.0 mg/l NH ₄ -N	25	ø 16 mm
Spectroquant® Ammonium Test	1.00683.0001	2.0 - 50.0 mg/l NH ₄ -N 5 - 100 mg/l NH ₄ -N	100	ø 16 mm

Picco NO₃-N

Product	Ord. No.	Measuring range (Picco)	No. of tests	Cells
Spectroquant® Colorimeter Picco NO ₃ -N	1.73603.0001			
Spectroquant® Nitrate Test	1.09713.0001	1.0 - 25.0 mg/l NO ₃ -N	100	ø 16 mm
Spectroquant® Nitrate Cell Test	1.14563.0001	1.0 - 25.0 mg/l NO ₃ -N	25	ø 16 mm
Spectroquant® Nitrate Cell Test	1.14764.0001	2.0 - 50.0 mg/l NO ₃ -N	25	ø 16 mm
Spectroquant® Nitrate Cell Test	1.00614.0001	23 - 225 mg/l NO ₃ -N	25	ø 16 mm

Picco N

Product	Ord. No.	Measuring range (Picco)	No. of tests	Cells
Spectroquant® Colorimeter Picco N	1.73604.0001			
Spectroquant® Nitrogen Cell Test, total	1.00613.0001	1.0 - 15.0 mg/l N	25	ø 16 mm
Spectroquant® Nitrogen Cell Test, total	1.14763.0001	10 - 150 mg/l N	25	ø 16 mm

Note: Samples must be digested in a thermoreactor for determination of total nitrogen. See Spectroquant® thermoreactors.

Picco PO₄-P

Product	Ord. No.	Measuring range (Picco)	No. of tests	Cells
Spectroquant® Colorimeter Picco PO ₄ -P	1.73605.0001			
Spectroquant® Phosphate Cell Test for determination of ortho-Phosphate and Phosphorus (total)	1.14543.0001	0.05 - 4.00 mg/l PO ₄ -P	25	ø 16 mm
Spectroquant® Phosphate Cell Test for determination of ortho-Phosphate and Phosphorus (total)	1.14729.0001	0.5 - 20.0 mg/l PO ₄ -P	25	ø 16 mm
Spectroquant® Phosphate Test for determination of ortho-Phosphate	1.00798.0001	1.0 - 70.0 mg/l PO ₄ -P	100	ø 16 mm

Note: Samples must be digested in a thermoreactor for determination of total phosphorus. See Spectroquant® thermoreactors.

Spectroquant® Picco accessories

Product	Ord. No.
Empty cells 24 mm with screw caps, pack with 12 pcs	1.73650.0001
Empty cells 16 mm with screw caps, pack with 25 pcs	1.14724.0001

Spectroquant® thermoreactors and accessories

Product	Ord. No.
Spectroquant® Thermoreactor TR 320 incl. integrated protective cover, holes: 12 for cell tests ø 16 mm, temperature selection: 100°C, 120°C, and 148°C ± 1.0°C, 5 preinstalled temperature/heating-time programmes for simplest possible operation: 148°C (120 min), 120°C (30 min, 60 min, or 120 min) 100°C (60 min), two-year guarantee	1.71200.0001
Spectroquant® Thermoreactor TR 420 incl. integrated protective cover, holes: 24 for cell tests ø 16 mm, temperature selection: from room temperature up to 170°C ± 1.0°C, 5 preinstalled temperature/heating-time programmes for simplest possible operation: 148°C (120 min), 120°C (30 min, 60 min, or 120 min) 100°C (60 min), two-year guarantee	1.71201.0001
Spectroquant® Thermoreactor TR 620 with two separate thermostated heating zones, incl. integrated protective cover, holes: 24 (2 x 12) for cell tests ø 16 mm, each heating zone can be heated and controlled separately; temperature selection: from room temperature up to 170°C ± 1.0°C, 5 preinstalled temperature/heating-time programmes for simplest possible operation: 148°C (120 min), 120°C (30 min, 60 min, or 120 min) 100°C (60 min), two-year guarantee	1.71202.0001
Thermosensors for TR 420 and TR 620 thermoreactors	1.71203.0001
PC cable for TR 420 and TR 620 thermoreactors	1.71204.0001

More information on the thermoreactors can be found on the internet at <http://photometry.merck.de> or in the Spectroquant® Thermoreactor brochure, available separately.



Package contents of the Picco Cl₂/pH/O₃

- Case
- Colorimeter
- Adapter and caps for 16-mm cells
- 9V battery
- 3 x 24-mm cells for reagent tests
- Operating manual



Package contents of the Picco COD/CSB, NH₄-N, NO₃-N, N und PO₄-P

- Case
- Colorimeter
- Adapter and caps for 16-mm cells
- 9V battery
- 3 x 16-mm cells (except COD)
- Operating manual



Merck KGaA
64271 Darmstadt, Germany
Fax 0049 (0) 61 51 72 - 60 80
E-mail: environmental.analysis@merck.de
www.merck.de
photometry.merck.de

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