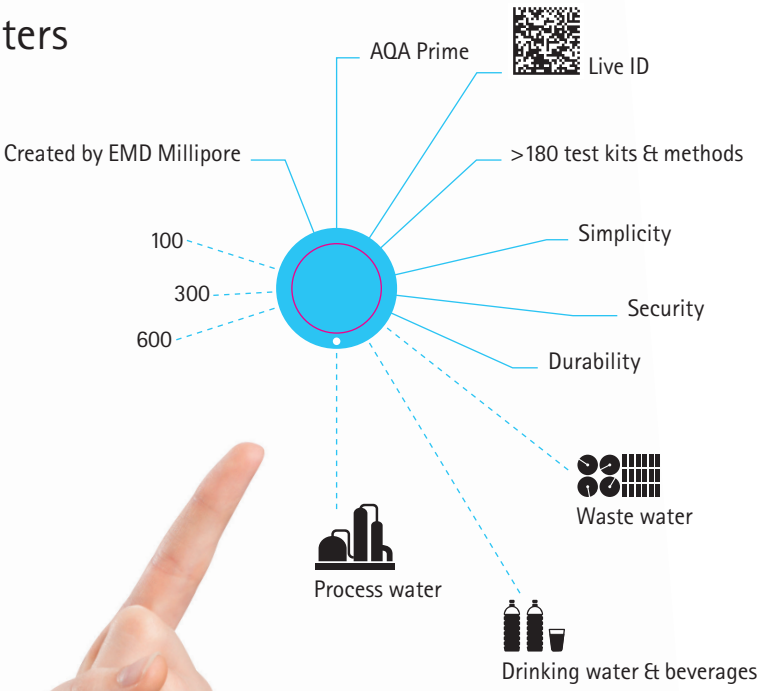
EMD MILLIPORE

Just Prove it.
Spectroquant® Prove

Simplify water analysis with
a **new** class of spectrophotometers



VWR® | vwr.com
We Enable Science

EMD Millipore Corp. is a subsidiary of Merck KGaA, Darmstadt, Germany

Just perfect.
Spectroquant® Prove

Our goal was to build the perfect tool for water analysis. One that unites the simplicity you want with the security you need, and durability you expect. Spectroquant® Prove delivers all these and more. Its intuitive controls, and our popular Spectroquant® test kits make analysis smoother than ever. Spectroquant® Prove. It just makes your work flow.

Long-life Lamp
Brilliant durability and economy

New reference beam technology in Spectroquant® Prove instruments minimizes the effort and costs of replacing lamps. Hence, the halogen lamp in Prove 100 lasts significantly longer, while the special xenon lamp in Prove 300 and 600 offers a lifetime of several years – even with heavy use.

Smart Screen
Simple, seamless menu navigation

Have complete control at your fingertips with our interactive Smart Screen and intuitive icons.

- Method and result lists for easy documentation and data access
- Touchscreens in Prove 100 and 300 and glass touchscreen in Prove 600 are resistant to most lab chemicals
- Navigation in 28 built-in languages

Custom Measurements
Easy adjustments for every need

Several modifications can be made easily using the settings icon – for example:

- Simultaneous display of absorption and concentration
- Turbidity correction
- Add the dilution factor for each sample

Individualized Measuring Ranges
Set your own limits

With Prove, you can assign your own measuring ranges to monitor if your results are within limits. This not only helps you visualize expected ranges, but also simplifies trend analyses.

Data Exchange
Facile, fast and flexible transfers

You have multiple ways to easily move your data to other devices. Use the USB or Ethernet ports for connection to your printer or LIMS.

Dimensions
A small beauty in your lab

W 42 cm, D 28 cm, H 24 cm

Reagent Tests
Minimum effort

All you have to do is insert the AutoSelector and rectangular cell. Prove does the rest. It automatically recognizes the cell size, detects the analysis method, and calculates results accordingly. This unique technology – only available from EMD Millipore – makes reagent testing truly simple and totally secure.

Maximum sensitivity

Every Prove model automatically recognizes 10, 20, and 50 mm cells. For even greater sensitivity, Prove 600 is also compatible with 100 mm cells. Simply remove the round cell holder, and insert a 100 mm cell. Now you can accurately detect the lowest analyte concentrations possible.

Easy Cleaning
Durable, removable components

Intelligent design makes it easy to keep Spectroquant® Prove in top form – even if something is spilled in the sample compartment. Simply remove the cell holder, rinse it with water, wipe it clean, and it's ready for your next analysis.

Cell Test Port

Just insert, prove and proceed

Spectroquant® Prove offers direct insertion of round cell tests without opening any lids. So you have both hands free to focus on the job at hand.

Robust Surfaces

Built to endure lab chemicals

Spills and splashes happen no matter how careful you are. That's why the materials and design of Spectroquant® Prove are engineered to last and resistant to most chemicals used in labs.

Spectroquant® test kits

Not just more choice. More security.

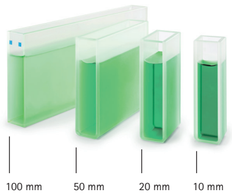
Spectroquant® Prove is preprogrammed for over 180 Spectroquant® test kits and methods, giving you swift, secure results for the broadest range of applications.
www.emdmillipore.com/sq-tests

Live ID

A new dimension in security

Live ID is the new, data-rich identification system on all our cell and reagent tests. Unlike other barcodes, it not only transfers more data, but "live" data – thanks to automatic, complimentary calibration updates. This means your results are always correct, and fully traceable. Live ID also saves time. Just insert the test. Prove reads the code, detects the method, and selects the right settings. Test-specific lot and expiry data are saved with each result to simplify documentation and streamline audits.

- Method recognition
- Lot number
- Expiry date
- Calibration update



Cell tests

For maximum convenience, our cell tests include all the reagents you need for your analysis, so they are ready to use straight out of the box.

Reagent tests with AutoSelector

These economical kits contain highly stable reagent mixtures, and allow you to choose the cell format that suits your measuring range. An AutoSelector with a Live ID code is also provided in each kit.

Just Prove it.

Preprogrammed Applications

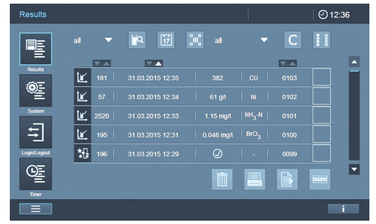
Free, additional methods to simplify your work

To further facilitate your analysis, Spectroquant® Prove offers free, preprogrammed application procedures, such as bromate in drinking water, ICUMSA and brewery methods.

Data on Demand

Customizable data for easy documentation

- Enjoy maximum flexibility in minimum steps.
- Access all your results from a clear, concise list
- Select your desired filter option (by date, keyword, method, user, etc.)
- Export data in your preferred form – from brief overview to complete protocol



AQA Prime

A new level of analytical security

AQA Prime makes analytical quality assurance exceptionally secure – and extremely easy.

- Clear overview of AQA status, information, updates, and options with one touch
- Select individual settings and measurements for each AQA
- Complete verification and documentation for all stages of quality control:

AQA1 > Instrument check

AQA2 > System check – now even easier because Prove is preprogrammed for all Spectroquant® standards

Pipette Check > Instrument supported volume control

AQA1 information

AQA2 information

AQA1 activated

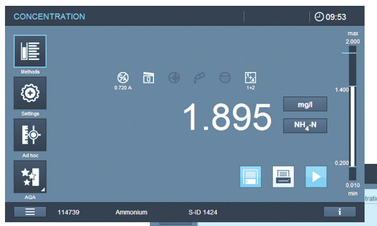
AQA2 activated

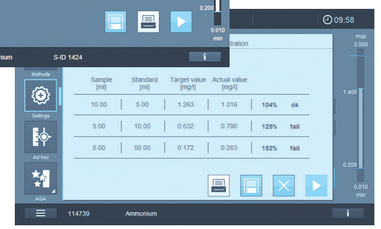
Pipette Check

Matrix Check

Easily detect interferences

The new Matrix Check makes it even easier to spot foreign substances in your samples. After your measurement, simply press the settings icon, and select Matrix Check from the list. You will be clearly guided through the entire process.





Made just for you.

Spectroquant® Prove 100 | 300 | 600

Spectroquant® Prove 100
VWR Cat. No. EM1.73016.0001

For routine applications
Prove 100 is the best choice for those who primarily use our broad range of Spectroquant® test kits, or only perform Vis measurements. High quality and great value for money for your daily analyses.

Spectroquant® Prove 300
VWR Cat. No. EM1.73017.0001

For sensitive measurements
Thanks to its long-lasting xenon lamp, Prove 300 is ideal for more intensive use. What's more, it is capable of both UV and Vis measurements, so you have greater flexibility for more intricate analyses.

Spectroquant® Prove 600
VWR Cat. No. EM1.73018.0001

For complex analyses
Designed for high-end UV/Vis optics, and cuvettes of up to 100 mm, Prove 600 packs great power into a compact size. Excellent resolution and sensitivity for use with test kits, complex kinetics or spectral measurements.

Specifications

		Prove 100	Prove 300	Prove 600
Measuring technology	Spectrophotometer with reference beam technology	■	■	■
Wavelength range	Vis (320 – 1,100 nm)	■	■	■
	UV (190 – 320 nm)		■	■
Lamp type	Tungsten halogen lamp	■		
	Xenon flash lamp		■	■
Ambient light protection	Measurement with open shaft possible due to proprietary solution (patent pending)	■	■	■
Spectral bandwidth	4 nm	■	■	
	1.8 nm			■
Smart Screen Display	Resistive touch screen	■	■	
	P-cap glass touch screen			■
Live ID System	2-D Barcode recognition for cell tests and reagent tests	■	■	■
	Barcode contains lot, expiry, and calibration data. Data stored with each measurement	■	■	■
Cell size	16 mm round cells, 10, 20 and 50 mm rectangular cells with automatic recognition	■	■	■
	100 mm rectangular cells with automatic recognition			■
Cell holder	Removable for easy cleaning	■	■	■
Methods	Programmed methods of all Spectroquant® cell and reagent tests, 99 user defined methods, 20 profiles for kinetics and absorbance scans each	■	■	■
Applications	Free preprogrammed applications: Bromate, Brewery packages (MEBAK/EBC methods), Sugar (ICUMSA), Oil (DOBI, olive oil)	■	■	■
AQA Prime	Individual settings for all methods in AQA 1 (instrument check) and AQA 2 mode (system check) and pipette check	■	■	■
Sample matrix check	Easy access through setting menu to perform instrument supported matrix check for each method	■	■	■
Software updates	Free method updates on the EMD Millipore website	■	■	■
Languages	Navigation in 28 built-in languages	■	■	■
Communication interfaces	USB: 2 x USB-A (for printer, USB memory devices, keyboard or barcode reader), 1 x USB-B; Ethernet: LAN connection	■	■	■

Application fields

Waste water

Regular testing, and the use of cell test kits are common in waste water analysis. Hence, Prove 100 is the perfect choice for these measurements. What's more, the Spectroquant® portfolio offers the broadest selection of COD tests. Just choose the measuring range that best suits your needs, and ensure precise results.

Drinking water & beverages

The analysis of drinking water and beverages typically involves reagent tests since they offer lower detection limits for parameters such as manganese and sulfate. Prove 300 is ideal here as it allows UV/Vis analyses, and is preprogrammed with free applications, like bromate and brewery tests.

Process water

Even low levels of impurities in process water can lead to damages, downtime, and expensive repairs. To help you avoid these, we have developed the most sensitive silicate and chloride tests with the lowest measuring ranges in the market. For even greater sensitivity, use the 100 mm cell in Prove 600.

Just ask.

Service and support

At EMD Millipore, we understand the importance of reliable instruments, and the complexities of documentation. That's why we offer a comprehensive service plan that takes care of both.

All Spectroquant® service plans offer the following features:

- **Performance check** with reference materials - certificate included
- **Factory-recommended maintenance** to prevent breakdowns
- **Telephone support hotline** connects you to our technical experts
- **Free software upgrades** to keep your instrument up to date
- **Reagent delivery program** for convenient, punctual supply of our high-quality test kits

We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose. Spectroquant is a registered trademark of Merck KGaA, Darmstadt, Germany.

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