

rqmicro.COUNT

Take control of water microbiology

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Rapid analysis for reliable risk control and monitoring





Analysis for various industries and applications

Legionella, E. coli, total bacteria

Industry	Facility Management	Service Labs		
Applications:	 Monitor water systems and detect contaminations Adjust water, biocide or energy consumption Control and optimize water management 			
Water types:	Industrial process waterCooling waterRaw water	WastewaterDrinking waterRecreational water		
Application areas:	 Automotive and Steel Chemistry and Pharma Pulp and Paper 	 Hotel and Healthcare Agriculture Energy and Water		
Benefits:	 Reduce health risks and avoid process interruptions Offer better services to internal and external customers Improve water quality control 			

"The kit presents a new technology emerging in environmental monitoring of Legionella with faster time to result, matrix independence, and good sensitivity."



License No.: 052002 for L.p. SG 1 Detect kit

Inside Laboratory Management, AOAC International Jan/Feb 2021

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rqmicro.COUNT Features



Rapid & Reliable

- Automated cell isolation and single-cell counting
- Parallel processing of up to 8 samples
- Actionable data based on the analysis of single cells, including viability assessment

Convenient & Portable

- Weight: 12.9 kg
- Portable device with small footprint
- Maintenance-free cartridge system
- No start-up/shutdown or cleaning cycles
- Self-calibrating optics
- Intuitive operation through a touch screen





Consistent & Unbiased

- Cartridge system:
 - no sample cross contamination
 - standarized sample purification and analysis
- Predefined instrument settings and analysis protocols

User-friendly online platform

• Remote access to reports, trends and data analysis

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- Easy-to-read dashboard for actionable results
- Email notification for immediate response









Operators of water systems and water labs benefit from actionable results that enable effective microbiological hygiene management.

Legionella have been recognized as the largest health burden among water pathogens. **Total Cell Count** is an established parameter to assess the total microbiological load of drinking and process water.

rqmicro.COUNT enables the on-site and in-lab analysis of bacteria on a single-cell level. The system isolates target cells from samples using immunomagnetic separation and determines the cell concentration of viable cells using flow cytometry. Up to eight samples can be processed in parallel. These high-end technologies have been limited to use in academic, research and development laboratories for the past 40 years and are now available for routine use.

Science

rqmicro.COUNT technology has been developed after 12 years of research and development at rqmicro (rapid quantitative microbiology) in collaboration with the Swiss Federal Institute of Technology (ETH) and Swiss Federal Institute of Aquatic Science and Technology (Eawag). After more than 100 years, analytical methods in water microbiology have seen little progress and are mainly based on cell cultivation. The method developed by rqmicro does not require cell cultivation due to the specific isolation of target cells and the high-performance optical detection. As a result, the method delivers results on single-cell level within hours instead of days.

rqmicro method for the quantification of bacteria

1. Labelling

Mark target cells with fluorescent dyes and, depending on the assay, with magnetic particles

2. Target cell isolation

Automated purification of target cells, depending on the assay

3. Single-cell analysis

Flow cytometric counting of viable cells

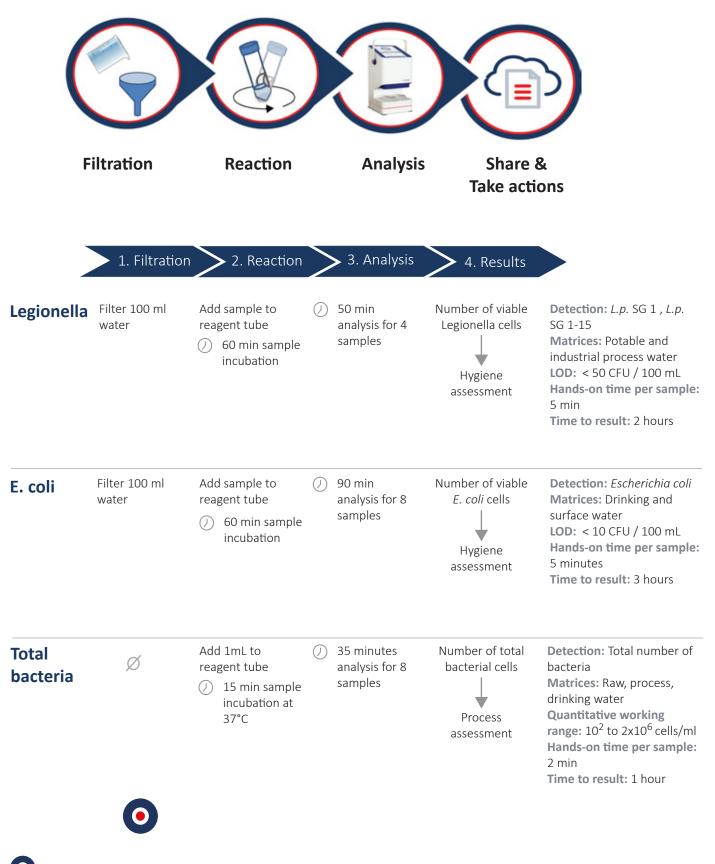




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Workflow



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MAKE WATER SAFE

Product number	Product name		
1200	rqmicro.COUNT		
31010	L.p. SG 1 DETECT Kit (96 tests)		
31110	L.p. SG 1-15 DETECT Kit (96 tests)		
32010	E. coli Kit (96 tests) (Early Access)		
30010	Total Cell Count (TCC) Kit (96 tests)		
30020	Intact Cell Count (ICC) Kit (96 tests)		



Contact us or book an online demo presentation to see rqmicro.COUNT in action.

"The aim of rqmicro is to enable customers to take control over the microbiological situation in water systems. Reliable and quantitative data makes it possible to improve water management and risk control to make water safer and create value for the water industry."

Dr. Hans-Anton Keserue, CEO of rqmicro





Notes

Your contacts:

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Dr. Björn Biedermann, Head of Sales bjoern.biedermann@rqmicro.com +41 78 973 73 33 **Christophe Gutknecht**, Senior Sales Manager christophe.gutknecht@rqmicro.com +41 78 229 51 15



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rqmicro AG Brandstrasse 24 8952 Schlieren Switzerland Tel: +41 44 512 51 51 E-Mail: info@rqmicro.com

Visit our website: **www.rqmicro.com**





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