

COLIGUARD®EC	high sensitive	sensitive
Measuring Principle	highly sensitive measurement of the selective enzymatic metabolic activity of E. Coli without cultivation	
Parameters	conversion to E. coli equivalent	
Sample Volume	variable; 20 – 3000 ml, manually or automatically variable	constant 10 ml
Detection Limit	3 E. coli absolute , < 1 E. coli/300 ml (sample volume 1000 ml)	3 E. coli absolute, < 30 E.coli/100 ml

Technical Specification	
Dimensions	600 x 600 x 350 mm
Weight	35 kg
Control Cabinet	Protection Class IP65
Power Supply	230V AC alternative power supply on request
Temperature Range	0 – 30°C
Humidity	0 – 90 %, no condensation
Location	No direct sun
Connections	Sampling line and drain

Communication	
LAN, TCP/IP standard 4-20mA Signal IEC 60870	
GPRS-connection (optional): Module for communication between server and device using GPRS and VPN tunnel	

mboGUI	Minimum	Recommended
Processor	> 1GHz	DualCore >2GHz
RAM	512MB	2GB
Screen Resolution	1024 x 768	1680 x 1050
HD Capacity	< 100MB	
System Software	Windows XP/2000/Vista, Mac OS X, Linux* (* on request)	
Other	Broadband-Internet, mouse with scroll wheel	

COLIGUARD® Device Family		
Device	Parameter E. Coli	Parameter Coliforme
EC	•	
CF		•
ECC	•	•
e.g.: COLIGUARD® EC. Hss, Parameter E. Coli, 1Filter, BG < 1		

Filter	Filter count	Detection Limit
s	0	< 30
hss	1	1 E. Coli/300 ml
hs	3	1 E. Coli/300 ml

mbonline

MbOnline is a young, highly innovative company in Austria that develops, produces and sells devices for the automatic, continuous online measurement of microbial parameters in aqueous media.

mbOnline GmbH

A-3100 St. Pölten, Daniel Gran Strasse 48

Tel.: +43 (0) 699 / 17 25 00 90 • Fax: +43 (0) 27 42 / 274 40 - 90
office@mbonline.at • www.mbonline.at

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COLIGUARD®

Automatic Online Measuring Device for near real-time detection of E. Coli / Coliforms



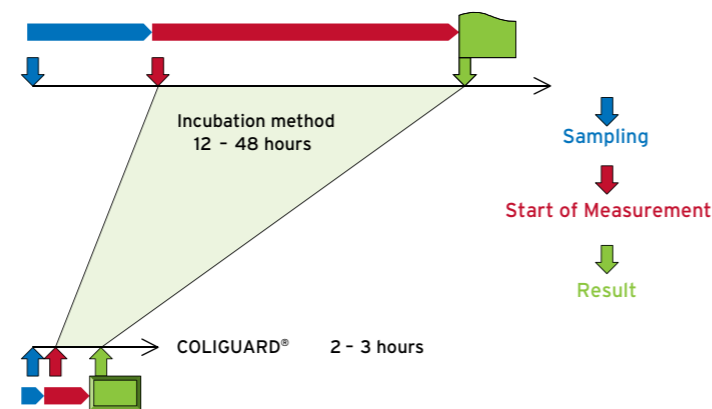
- Fast
- + Comprehensive
- + Statistically meaningful results
- + Flexible
- + Online

Eliminate Risk

Experts in microbiology ...

Fast

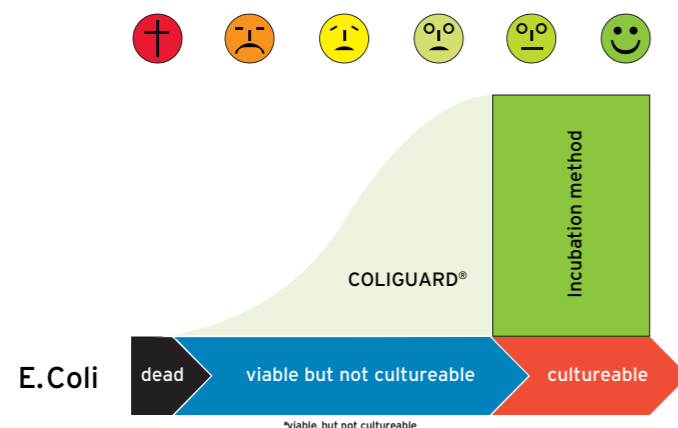
2 hours instead of 2 days



By using automated, highly sensitive methods for the detection of tracer enzymes for fecal contamination (β -Glucuronidase and β -Galactosidase), test results are obtained 2 hours after taking the sample (sampling cycle 0,5 – 2 h, depending on sample volume). Classical microbiological methods require at least 18 h (quick tests), typically 24 – 48 h for standard laboratory tests.

Comprehensive

... not cultureable but still dangerous?



The COLIGUARD® method not only detects the small group of target bacteria that can be cultivated under synthetic, standardized laboratory conditions, but also those bacteria, that will no longer divide under laboratory conditions but can still constitute a substantial risk under ideal conditions (e.g.: in the intestine). Thus even older contaminations can be detected, the measurement is more conservative than the standard analysis:

- fresh contamination: 100% E. Coli, 80% can be cultivated
- old contamination: 100% E. Coli, only 20% can be cultivated, but 60% are still viable

Statistically meaningful results

... up to 30 times larger sample volume

COLIGUARD® results are statistically more meaningful than the conventional microbiological methodology: Especially for low concentrations the statistical inadequacy of 100 ml or 250 ml samples can be avoided by varying the sample volume (20 ml – 3000 ml) and thereby capturing all bacteria in the sample.



Flexibel

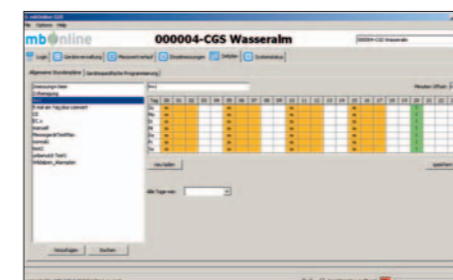
Free design of your process



- Measurement – up to 6 times per day
- Sample Volume – 20 – 3000 ml
- Measurement Parameters – E. Coli or Coliforms
- Independent of lab-facilities – can be used anywhere
- Simple Operation – minimum time exposure
- Easy Maintenance – low cost
- Portable – stand-alone system

Online

Safely into your IT System



Using secure connections, COLIGUARD® can be connected to control systems or can be integrated into the intranet as an individual device. Optional connections range from LAN up to radio link.