

Ship operators can meet ballast water regulatory requirements with our rapid, trusted, onboard testing solution – **measuring all fractions within 1 hour.**



Ballast Water Regulations – Are you ready?

The introduction of harmful aquatic organisms and pathogens to new environments through ships' ballast water is a significant threat to the world's oceans, posing severe environmental, economic and public health risks.

In September 2017, the IMO Ballast Water Management Convention and the United States Coast Guard developed strict regulations governing ballast water management, stating that all ships must - within the next 5 years – meet certain standards when discharging ballast water.

Installing a Ballast Water Treatment System is a significant and costly undertaking for ships, not to mention learning a new testing protocol to self-monitor ballast water.

LuminUltra has been working on a ballast water (BW) testing solution for many years, and can help you navigate this new testing requirement.

Did you know?

The following standards define the permitted levels of the following organisms in discharged ballast water:

- organisms greater than 50µm in size
- organisms between 10µm and 50µm
- bacteria (including *Vibrio cholera*, *Escherichia coli* and intestinal *Enterococci*)

LuminUltra's B-QUA: A testing solution you can trust

- A 6-year R&D program led us to develop a **trustworthy method of analysis.**
- We've participated in extensive research studies both in lab and on board, where **our BW test kit has been scientifically validated for all three regulated size fractions.**
- The ATP method we base **our solution** on **has been referenced in the following regulations and is authorized to be used for a variety of purposes**, including:
 - BW Management Convention Circ.42: for compliance as a first step
 - the US EPA "BW self-monitoring": for BW Treatment system functionality monitoring
 - The HSSC - Survey Guidelines: for testing during commissioning of the BWTS.
- LuminUltra's ballast water solution is already used by a network of laboratories worldwide.
- A LuminUltra employee is a member of the standard and has been providing support to industry for several years.

LUMINULTRA®
microbial monitoring

Why customers choose LuminUltra?

During ship inspections of ballast water, Port State Control (PSC) use our test kit to achieve rapid and accurate results without unduly delaying ships. Ships use our approved and reliable solutions on-board to self-monitor their ballast water by testing a sample prior to arriving in port for inspection.

Benefits of B-QUA include:

- It's efficient - our test kit covers all three of the standards set out in the regulation – no other single kit does that.
- Versatile - can be used after treatment and again before the de-ballasting process to ensure efficacy.
- It's accurate – measures all viable and living microorganisms.
- Rapid results – perform test for compliance in less than an hour means no holdup in ports.
- Convenient on-board analysis – no need to take back to the lab.
- Solution includes support & training from knowledgeable, scientific staff.
- We offer PSC inspectors training.



Our Ballast Water Solution includes:

- LuminUltra (B-QUA) Test Kit
- Portable Equipment case including PhotonMaster™ Luminometer + Bluetooth Module
- LuminUltra Cloud™ Data Management & Decision Support Platform complete with:
 - Mobile app for rapidly inputting and managing data
 - Robust analysis and reporting to put you in control
- LuminUltra Academy – our online training and certification center

LuminUltra works with ship operators, labs and PSC who have requirements to test Ballast water for self-monitoring and compliance.

Ask how we can help integrate our Ballast Water solution into your Ballast Water Management Plan, by emailing Carine Magdo, Ballast Water Manager, at carine.magdo@luminultra.com

