

Riboflavin testing for tanks in well-boats



Riboflavin testing is an effective test method to validate the cleaning systems efficiency as a part of the documentation for approval and re-approval of new and operating well-boats.

Before commissioning the tank in well-boats, Bactoforce can perform a full hygienic validation of the tank surface, including a test of the CIP installation. Bactoforce offers a unique know-how and experience. We recognize the need to work effectively to reduce equipment downtime without compromising safety. Our inspectors are trained to work in confined spaces and at heights and carry the right equipment to perform inspections effectively and safely.

Advantages include:

• Third party quality assurance - added value:

Performing a tank inspection previous to commissioning the well-boat is an assurance to both the supplier and the buyer that the design and condition are according to specification. Reports from inspections will verify defined KPI's upon approval or reveal any needs for corrective actions. Such independent 3. Party documentation will strengthen the buyer/supplier relationship and ensure the quality.

• Cost reduction

Identifying defects before operation starts allows for performing repairs at much lower cost and inconvenience compared. Un-detected defects will lead to increased operating costs or risk of quality problems.

• Quality documentation:

We document all inspections and make them available on-line. Easy access for internal and external audits and analysis of equipment status.

Riboflavintest

- Independent quality assurance
- Validate design of CIP installation
- Web-based reporting system



TAKE A CLOSER LOOK AT YOUR PROCESS LINE

Procedure

– Riboflavin testing for tanks

Riboflavintest

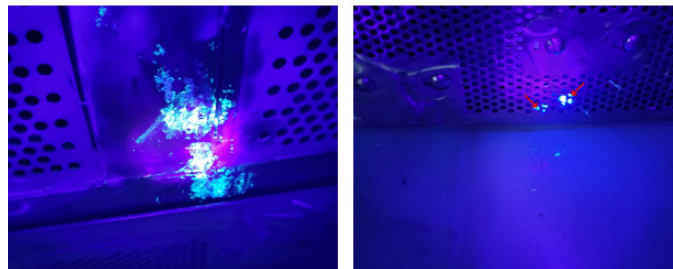
The Riboflavintest is an acceptance test of new equipment, before it is handed over to the end user.

The Riboflavin test method is based on the VDMA standard for low-germ or sterile process technologies to meet the high hygienic requirements.

The Riboflavintest is performed on-site using a water/vitamin solutions and flushing based on the pre-determined rinsing cycle.

Content of the Riboflavintest

- Riboflavintest based on the VDMA - Riboflavin test for low-germ or sterile process technologies modified for inspections of large surfaces.
- Onsite localization of critical cleaning points.



R-Force

– Access Your Data

Web-based reporting system

Bactoforce is using an on-line reporting system, R-Force, which allows our customers to have full access to current and historic inspection reports.

The system also gives a systematic overview of equipment, planned inspections and agreed inspection frequency.



Other Bactoforce Services

Heat exchanger / pasteurisers

- Leakage test
- Organic residue test (TOC)
- Energy side cleaning
- Calibration
- Holding time test
- Holding tube measurement

Tanks

- Tank integrity test
- Validation of new tanks
- Riboflavintest / Spray-Shadow Test

Sensors

- Temperature
- Flow (on-site/off-site inspection)
- Pressure
- Conductivity

Pipes

- Hygiene inspection
- Welding control