

BACTIQUANT

US-EPA VERIFIED TECHNOLOGY 2012

Analysis for total Bacteria in oil and gas operations



US Corrosion Innovation Award 2017

Schlumberger is the world's leading provider of technology for reservoir characterization, drilling, production, and processing to the oil and gas industry. Working in more than 85 countries and employing approximately 100,000 people who represent over 140 nationalities, Schlumberger supplies the industry's most comprehensive range of products and services, from exploration through production and integrated pore-to-pipeline solutions for hydrocarbon recovery that optimize reservoir performance. In 2017 Schlumberger received the Corrosion Innovation Award for their unique Microbial Instacheck System. "Microbial InstaCheck is a rapid, inexpensive, easy-to-use, portable onsite service for immediate evaluation of system-wide total (aerobic and anaerobic) bacteria population and control. To ensure operational

efficiency, safety, and performance, it comprises the Mycometer BACTIQUANT water bacteria enumeration technique, adapted and evaluated extensively for oilfield applications, in combination with Schlumberger Production Technologies' integrated analytical platform ChemWatcher, powered by AVOCET, to enable informed, real-time bacteria control strategy. It removes the guess work out of biocide applications and allows the end user to measure the bacteria populations and monitor the effectiveness of bacteria treatment strategy in real time; efficiently controlling the use of microbiocides based on their effects on the bacteria populations".

Schlumberger,
Houston, Texas



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Monitoring RAS for Total Bacteria – in Minutes



The most advanced smolt facility in the world

Leroy Seafood Group is a world-leading seafood corporation with a history reaching back to 1899.

The Group's core business is the production of salmon and trout, catches of whitefish, processing, product development, marketing, sale and distribution of seafood. The 3.800 employees deliver seafood corresponding to five million meals every year in more than 80 countries around the world.

Leroy is operating one of the world's largest smolt facilities, located west of Trondheim. The facility has an area of 11.000 square meters, and consists of 11 separate departments, with three hatcheries and eight departments for grow out. The smolt production chain starts with the

fertilized eggs and the fish are reared to 80g within 39 weeks. An important focus for the Leroy smolt operation is to maintain a stable production environment. The Bactiquant-water technology is used to monitor microbial water quality at all stages of production. The applications include, monitoring feeding impact, filter functions, verification of cleaning procedures, improving hydrodynamics in tanks and catching any irregularities in the microbial water quality.

Julia Fossberg,
Biologist,
Lerøy Midt AS



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Verification and Documentation in Cooling Systems



Hygiene Management at FACEBOOK

Condair is the world's leading manufacturer of commercial and industrial humidification and evaporative cooling products and systems. The company have supplied evaporative humidifiers to Facebook's data centre in Sweden to maintain humidity levels in the penthouse ventilation system that uses the cold arctic air to cool its server halls.

Today Mycometer provide the Bactiquant®-water technology, for use in cooling systems and adiabatic humidifiers, at Facebook data centres worldwide.



TESTIMONIAL "In adiabatic humidifiers, water hygiene is a very important issue. As a supplier of professional humidification solutions to many different industries where hygiene is critical, we need to have a rapid, robust and reliable tool to test our systems in the field. With the Bactiquant-water test we are able to prove, that the water we add to the air is safe for humans and products. Hygiene tests in the field - on site, is an essential part of the verification procedure of our certified ISO 22.000 HACCP Hygiene Management System. With success, we have been using the BQ test equipment since 2006 and have more than 90 certified users throughout our

organization in Europe and North America. It's a great tool for our field technicians, not only for verification of hygiene level, but also to do on site diagnosis on contaminated systems. Instead of waiting days for results, we can proceed and act immediately and make sure that our systems are safe, when we leave the customer. This saves us a lot of money and time every year, and- best of all - our customers are happy and feels safe."

Leo Rasmussen,
Senior technical adviser,
Condair Technology & Innovation Group



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Early Warning in Water Utilities



Vitens ensures high water quality

Vitens is the largest drinking water company in The Netherlands. Vitens deliver top quality drinking water to 5.6 million people and companies. Annually Vitens deliver 350 million m³ water with 1,400 employees, 100 water treatment works and 49,000 kilometres of water mains.

Vitens has set the barren high and has a professional organization that follows the water very closely from raw water to consumer to ensure the highest quality. Therefore, they are constantly testing the latest technologies to

continuously monitor water quality, so consumers can trust that water is of the highest quality when opening the tap. 25,000 analyzes over a period of 2.5 years have convinced Vitens to implement Mycometer's technology Bactiquant as a standard method in their monitoring program for measuring the bacterial levels in the water. Vitens is known as a frontrunner in new technologies and is one of the utilities that the rest of the world is looking to when it comes to new water technology.

TESTIMONIAL "Bactiquant helps us to continuously monitor water biostability in the water chain from our raw water sources to end-use. Because the test takes a maximum of 30 minutes, we can quickly assess, whether the water quality in our water treatment plants and in our distribution system is bacteriological stable, or if we need to take action,"

Dr. Bendert de Graaf,
Team Manager Business,
Office Laboratory Manager

TESTIMONIAL "The most important task for a Drinking Water Production Plant is to produce clean water of a high quality. Sandviken Energy and Water uses the Bactiquant technology to establish baselines for total bacteria in the production processes. We also use the technology for rapid tracking of water quality deviations in the distribution system, and as a rapid analysis tool in pipeline renovations and verification of cleaning efforts in reservoirs and sedimentation bassins."

Håkan Bergsten,
Head of production,
Sandviken Energy and water, Sweden



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