

MONITORING OILFIELD MICROBES: QUANTITATIVE POLYMERASE CHAIN REACTION (qPCR)



OILFIELD MICROBIOLOGY

Microbial activity monitoring is vital in the prevention of detrimental effect of microbes in the oil and gas industry. It is the first step in determining the risk and mitigation of biofouling, microbiologically influenced corrosion (MIC) and reservoir souring.

The determination and quantification of bacteria in oilfield systems swiftly would help operators determine the microbial issues in their production, water injection, cooling system, slop tanks, reservoir and even potable water and water makers.

SWIFT DETERMINATION OF MICROBES

A wide range of assays are available for prokaryotes, bacteria and archaea:

- Sulphate Reducing Prokaryotes/Bacteria (SRP/B)
- Iron Reducing Bacteria (IRB)
- Total Methanogens
- Corrosive Methanogens (mich)
- Sulfur Oxidizing Bacteria
- Total Prokaryotes
- Legionella Species
- E-Coli
- SARS-CoV-2/COVID-19



EASY & ACCURATE

Easy-to-use equipment with simple training that can be used by technicians to get accurate results onsite



TIME

Able to obtain accurate, reliable results in just 2 hours compared to days or weeks by traditional methods



VERSATILE

Able to quantify wide range of microbes in different sample medium, salinity, temperature without the need for incubation

