



## DETECTION OF SULPHATE REDUCING BACTERIA

Sulphate reducing bacteria (SRB) are a class of microorganisms that reduce inorganic sulphur-containing compounds like sulphate and produce hydrogen sulphide (H<sub>2</sub>S) gas.



### SRB Problems in Oil and Gas Industry

- Microbiologically-influenced corrosion (MIC)
- Reservoir souring
- Biofouling

### Common SRB

Deltaproteobacteria	<ul style="list-style-type: none"> <li>• Desulfobacteriales</li> <li>• Desulfovibrionales</li> <li>• Syntrophobacteriales</li> </ul>
Firmicutes	<ul style="list-style-type: none"> <li>• <i>Desulfomaculum</i></li> <li>• <i>Desulfosporomusa</i></li> <li>• <i>Desulfosporosinus</i></li> </ul>
Nitrospirae	<ul style="list-style-type: none"> <li>• <i>Thermodesulfovibrio</i></li> </ul>
Sulphate Reducing Archaea	<ul style="list-style-type: none"> <li>• <i>Archaeoglobus</i></li> <li>• <i>Thermocladium</i></li> <li>• <i>Caldivigra</i></li> </ul>

### Our SRB Testing Solutions

#### (Biological Activity Reaction Test) BART



- Cultured-based method
- Output:
  - Presence of living SRB
  - Estimated quantity of SRB
  - General groups of SRB

#### qPCR

- Culture-based method
- Output:
  - Presence of living SRB
  - Estimated quantity of SRB
  - General groups of SRB



#### Next Generation Sequencing (NGS)

- Molecular method
- Output:
  - Comprehensive microbial profile
  - Relative quantity of each species
  - coupled with qPCR to yield absolute quantity



Talk to us 

WhatsApp: +60 12-698 7154

Email: [marketing.my@alsglobal.com](mailto:marketing.my@alsglobal.com)

Follow us



[marketing.my@alsglobal.com](mailto:marketing.my@alsglobal.com)

[www.alsglobal.com](http://www.alsglobal.com)  
RIGHT SOLUTIONS RIGHT PARTNER

HQ Shah Alam +603 7845 8257

Other Sites:

Johor Bahru Pulau Pinang

Kota Kinabalu Kemaman