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## SULFATE REDUCING BACTERIA TEST

### DIRECTIONS

1. Unscrew the cap and set the cap on a clean surface with the flat surface area down. To avoid contamination do not touch the inner surface of the tube or lid.
2. Open a sterile swab package and insert swab into the liquid sample for 10 seconds. To avoid contamination do not touch the sterile swab. Do not use the swab if package seal is broken.
3. Insert swab with liquid sample into the agar tube until it reaches the bottom.
4. Break the swab end and replace screw cap on the agar tube.
5. Incubate samples for 1 to 5 days at  $30^{\circ}\text{C} \pm 2$  or at the same temperature the sample was collected.

### INTERPRETATION OF RESULTS

#### A. Negative

After 5 days of incubation, if the agar tube is not completely black or does not have a narrow area of black around the applicator tip, the sample is considered negative for Sulfate reducing bacteria

#### False Negative

High TDS samples can affect the results. Please contact us for a customized test to match your sample's TDS.

#### B. Positive

If the agar tube turns completely black or is black around the applicator tip between 8 hours and 5 days of incubation, the sample is considered positive for Sulfate reducing bacteria. Please note that any portion of the agar tube turning black will indicate a positive sample.

If the result is positive, please use the chart below:

Days to Reaction	H <sub>2</sub> S Production	Bacteria Population
0 – 1	Strong	High
2	Strong	High
3	Medium	Moderate
4	Medium	Moderate
5	Weak	Low

#### False Positive

High H<sub>2</sub>S samples can result into false positives. High H<sub>2</sub>S may turn the vial black immediately of the agar surrounding the swab to a black color. This fast color change in the tube should be noted and monitored. If there are no more changes in color with incubation, this agar tube needs to be considered negative.

### STORAGE

Agar tubes should be stored at room temperature (20-25°C) (68-77°F) and protected from light.