



## Product Information

### SULFATE API AGAR

(American Petroleum Institute)

Product Number **S 5056**

#### Product Description

Sulphate API medium is used for the detection and estimation of sulfate reducing bacteria as described by the American Petroleum Institute Recommended Practice.<sup>1</sup> Sulfate-reducing bacteria causes corrosion of oil well systems. Sulfate-reducing bacteria convert sulfate to sulfide which with the ferrous ion results in a black color.

#### Components

Item	g/L
Yeast Extract	1.00
Ascorbic Acid	0.10
Magnesium Sulfate	0.20
Dipotassium Phosphate	0.01
Ferrous Ammonium Sulfate	0.10
Sodium Chloride	10.00
Agar	14.00

Final pH (at 25 °C) 7.4 ± 0.2

#### Precautions and Disclaimer

For laboratory use only. Not for drug, household or other uses.

#### Preparation Instructions

Suspend 25.4 grams of Sulfate API Agar in 1000 mls of distilled water containing 0.4% (v/v) sodium lactate. (L 7022) Heat to dissolve the medium completely.

Dispense 9 mls of medium into each screw-capped tube. Sterilize by autoclaving at 15 lbs. pressure (121 °C) for 10 minutes. Close the caps immediately while the medium is still hot.

#### Storage/Stability

Store the dehydrated medium at 24 °C and the prepared medium at 2-8 °C.

#### Product Profile

Appearance	Yellow colored, homogeneous, free flowing powder.
Gelling	Firm.
Color and Clarity	Light yellow colored, clear to slightly opalescent gel forms in petri plates or tubes.
Cultural Response	Cultural characteristics are observed after 1 week at 30 °C when incubated anaerobically.

#### Organisms (ATCC) Growth

<i>Desulfovibrio desulfuricans</i> (29577)	good to luxuriant
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#### References

- American Petroleum Institute Recommended Practice, (1959). First Edition, 28.
- American Type Culture Collection, Manassas, Va., U.S.A.

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