

SULFATE REDUCERS BROTH

Liquid medium for detection and enumeration of sulfate reducing bacteria from environmental samples.

TYPICAL FORMULA	(g/l)
Enzymatic Digest of Casein	9.5
Sodium Sulfite Anhydrous	0.5
Magnesium Sulfate Anhydrous	1.9
Ferric Citrate	0.5
Sodium Chloride	9.5
Sodium Lactate	3.5
Final pH 7.4 ± 0.2	

DESCRIPTION

SULFATE REDUCERS BROTH is a liquid medium used for the detection and enumeration of sulfate reducing bacteria (SRB) from environmental samples.

PRINCIPLE

Enzymatic digest of casein provides carbon, nitrogen, vitamins and minerals to support bacterial growth. Magnesium sulfate is a ready accessible source of sulfate for SRB. SRB reduce sulfate to form hydrogen sulfide. Ferric citrate reacts with hydrogen sulfide to produce ferrous sulfide, an insoluble black precipitate. Sodium chloride maintains the osmotic balance of the medium. Sodium lactate enhances bacterial growth.

TECHNIQUE

The broth is suitable for enumeration of SRB by an MPN technique. Inoculate tubes preparing serial dilutions of the initial sample. Incubate anaerobically at 25-35°C. Examine tubes daily for the first week and intermittently for up to 30 days.

INTERPRETATION OF RESULTS

Sulfate reducing bacteria cause blackening of the medium; turbidity alone is not indicative of SRB.

STORAGE AND TRANSPORT CONDITIONS

2-8°C away from light, until the expiry date on the label. However, our stability studies have shown that the transport at 18-25°C for 4 days, or at 35-39°C for 48 hours, does not alter in any way the performance of the product. Eliminate if signs of deterioration or contamination are evident.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for professional use only and must be used by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

1. American Petroleum Institute Recommended Practice 28 (1959) 1st ed.





PRODUCT SPECIFICATIONS

NAME

SULFATE REDUCERS BROTH

PRESENTATION

Glass tubes containing 10 ml of medium

STORAGE

2-8°C

PACKAGING

Ref.	Content	Packaging
24440	20 x 10 ml tubes	20 tubes in cardboard box

pH OF THE MEDIUM

7.4 ± 0.2

USE

SULFATE REDUCERS BROTH is a liquid medium used for the detection and enumeration of sulfate reducing bacteria (SRB) from environmental samples

TECHNIQUE

Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM

Appearance: clear Colour: light amber

SHELFLIFE

2 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control 7 days at 22 ± 1°C, in aerobiosis

7 days at 36 ± 1°C, in aerobiosis

Microbiological control

Inoculum for productivity: 10-100 CFU/ml

Inoculum for specificity: ≤10⁴ CFU/ml
Incubation Conditions: 30 ± 2°C for up to 1 week

Microorganism Growth Colour Escherichia coli ATCC® 25922 Good Amber Desulfovibrio desulfuricans DSM 1924 Good Blackening

TABLE OF OVERDOLO

TABLE OF SYMBOLS						
LOT Batch code	IVD In vitro Diagnostic Medical Device	Manufacturer	Use by	Fragile, handle with care		
REF Catalogue number	Temperature limitation	Contains sufficient for <n> tests</n>	Caution, consult instruction for use	② Do not reuse		

