

LEGIONELLA BCYE AGAR BASE

Medium for *Legionella spp* isolation from clinical and environmental samples.

TYPICAL FORMULA	(g/l)
Charcoal Activated	1.5
Yeast Extract	10.0
Agar	17.0

Final pH = 6.9 ± 0.1 at 25 °C.

DESCRIPTION

LEGIONELLA BCYE AGAR BASE is used for isolating *Legionella spp* from clinical and environmental samples.

PRINCIPLE

The activated charcoal decomposes hydrogen peroxide, a toxic metabolic product, and may also collect carbon dioxide and modify surface tension. Yeast extract is a source of amino acids and vitamins of group B. Agar is the solidifying agent. The addition of supplements provides further growth factors and antibiotics to increase the selectivity of the medium.

PREPARATION

Melt the content of the bottle in a boiling water-bath at 100°C (loosing the caps partially unscrewed) until completely dissolved. Cool to 45-50°C and mix well avoiding the formation of bubbles. Aseptically add the content of 1 vial of LEGIONELLA BCYE Growth Supplement (ref. 81056), reconstituted with 10 ml of sterile distilled water, and 0,9 ml of LEGIONELLA GVPC Supplement (ref. 81008). Otherwise add 1,8 ml of LEGIONELLA BMPA Supplement (ref. 81002), and 1,8 ml of LEGIONELLA MWY Supplement (ref. 81008). Mix well and distribute into Petri dishes. Allow the medium to solidify. Store the plates in tightly closed containers.

TECHNIQUE

Inoculate the medium with the specimen with a sterile loop and incubate the plates at 36 ± 1°C in a 90% relative humidity atmosphere. Growth usually appears in 2-3 days but continue to examine daily for 14 days before discarding the plates.

INTERPRETATION of RESULTS

Legionella pneumophila colonies are visible after 2 to 5 days of incubation and appear 1-2 mm in diameter, light blue to blue-gray in color. Upon longer incubation, colonies become larger and gray-white to white in appearance. Suspected colonies must be submitted to gram coloration, biochemicals and immunological tests.

STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. The product must be used only by properly trained operators.

DISPOSAL of WASTE

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

REFERENCES

1. Dennis, P.J.L. (1988). Isolation of legionellae from environmental specimens.
2. BSI Document Determination of Legionellae in water and related materials. Method for their detection and enumeration. July 1989 DRAFT DOCUMENT. 89/53406.



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PRODUCT SPECIFICATIONS

NAME

LEGIONELLA BCYE AGAR BASE

PRESENTATION

Glass bottles containing 90 ml of medium.

STORAGE

10-25°C

PACKAGING

Code	Content	Packaging
402600	6 bottles x 90 ml	6 bottles in cardboard box

pH OF THE MEDIUM

6.9 ± 0.1

USE

LEGIONELLA BCYE AGAR BASE is used for isolating *Legionella spp* from clinical and environmental samples.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE of the MEDIUM

Black medium, opaque.

SHELFLIFE






2 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control
7 days at 25 ± 1°C, in aerobiosis
7 days at 36 ± 1°C, in aerobiosis
- Microbiological control
Inoculum for productivity: 10-100 UFC/ml
Inoculum for selectivity: 10⁴-10⁵ UFC/ml
Inoculum for specificity: ≤ 10⁴ UFC/ml
Incubation conditions: 18-24 h at 36 ± 1°C

Microorganism	ATCC	Growth	Characteristics
<i>Legionella pneumophila</i>	33153	good	grayish-blue colonies
<i>Legionella dumoffii</i>	33343	good	grayish-blue colonies

TABLE OF SYMBOLS

LOT Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests
REF Catalogue number	 Temperature limitation	 Use by	



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