

YERSINIA CIN LAB-AGAR™

For the selective isolation *Yersinia* spp. from foods and clinical specimens. According to ISO 10273 standard.

Formula in g/L

Enzymatic digest of gealtin.....	17,00	Mannitol	20,00
Yeast extract.....	2,00	Sodium pyruvate	2,00
Sodium chloried	1,00	Sodium desoxycholate.....	0,50
Neutral red	0,03	Magnesium sulphate 7-hydrate.	0,01
Crystal violet.....	0,001	Agar	12,50
Enzymatic digest of plant and animal tissues.....	3,00	Novobiocin.....	0,0025
Irgasan.....	0,004	Cefsulodin.....	0,015

Final pH at 25°C: 7,4 ± 0,2

Principle:

Yersinia CIN LAB-AGAR™ is a selective and differential for *Yersinia* species, especially *Y. enterocolitica*. The mannitol is the fermentable carbohydrate. Mannitol fermentation in the presence of the neutral red produces a characteristic “bull’s eye” colony, colourless with a red center. Enzymatic digest of gealtin and peptone mixture (casein and meat) provide nitrogen, vitamins, minerals and amino acids essential for growth. Yeast extract is a source vitamins, particularly of the B-group. Sodium pyruvate is added as a source of energy as a protective substance in order to overcome oxygen toxicity biologically produced by organisms. Selective inhibition of Gram-positive and Gram-negative bacteria is obtained through crystal violet, sodium desoxycholate and irgasan. Cefsulodin and novobiocin improve the inhibition of normal enteric bacteria. Sodium chloride supplies essential eletrolytes for transport and maintains osmotic balance. Magnesium sulphate is a magnesium ion required in a large variation of enzymatic reactions, including DNA replication. Neutral red is a pH indicator.

Prepared: liguely the medium in boiling in water bath approx. 1 hour (100°C) then cool to 45-50°C. Mix well. Pour the medium into sterile Petri dishes.

Procedure:

- ★ ISO 10273 norm recommends the use of this medium for the detection of presumptive pathogenic *Y. enterocolitica*, after incubation of the enrichment media PSB, at a temeperature of 22°C to 25°C for 48 to 72 hours or 5 days without agitation, and ITC medium at a temeperature of 25°C for 48 hours
- ★ Inoculate plates by spreking
- ★ Incubate at 30°C for 24-48 hours

Result:

- ★ Typical colonies of *Yersinia enteroclitica*, will appear colourless, with dark red centers, like “bull’s eye”suorrounded by transparent border

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Storage / Shelf life

- ★ Prepared bottles at 2 - 25°C shielded from light
- ★ The expiration date is indicated on the label.

Purpose:

- ★ product intended the professional use in diagnostics in vitro

Dealing with waste:

- ★ dealing with – waste according to regulations being in effect in this respect

Dealing with consumed bases:

- ★ one should remove consumed bases according to procedures being in effect in the given individual

Pack size

6 bottles x 100 ml
6 bottles x 200 ml

Ref.
BT 5035.01
BT 5035.02

