

**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 anh. ....	0,01
Crystal violet.....	0,001	Agar .....	12,50
Peptone mixture (casein and meat).....	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 electrolytes 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.

**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 temperature of 22°C to 25°C for 48 to 72 hours or 5 days without agitation, and ITC medium at a temperature of 25°C for 48 hours
- ★ Inoculate plates by streaking
- ★ Incubate at 30°C for 24-48 hours

**Result:**

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

**Storage / Shelf life**

- ★ Prepared plates at 2 - 12°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

Box of 20 Petri dishes 90 mm

Ref.

PP 1090

