

## Technical Data Sheet

Cat. No. AS-1380

### PRODUCT IDENTIFICATION

<b>Product Name</b>	Yersinia (CIN) Agar
<b>Catalog Number</b>	AS-1380
<b>Product Type</b>	Selective and differential dehydrated culture medium
<b>Primary Use</b>	Isolation and differentiation of Yersinia enterocolitica
<b>Format</b>	Dehydrated powder
<b>HS / AHECC</b>	3821.00.00 / 3821.00.90

### TECHNICAL OVERVIEW

Yersinia (CIN) Agar is a selective and differential dehydrated culture medium formulated for the isolation and differentiation of Yersinia species, particularly Yersinia enterocolitica, from clinical, food, and environmental samples. The medium uses peptones and yeast extract to support growth, while Cefsulodin, Irgasan, and Novobiocin (CIN) suppress much of the accompanying flora. Mannitol and neutral red enable the characteristic red “bull’s-eye” colony morphology associated with presumptive Y. enterocolitica.

### TYPICAL FORMULA (PER LITRE)

Ingredient	Amount	Role
Peptone / Proteose Peptone	10.0 g	Nutrient base
Yeast Extract	5.0 g	Growth factors
Mannitol	10.0 g	Differential carbohydrate
Sodium Chloride	5.0 g	Osmotic balance
Agar	15.0 g	Solidifying agent
Cefsulodin	5 mg	Selective agent
Irgasan (Triclosan)	1 mg	Selective agent
Novobiocin	10 mg	Selective agent

Ingredient	Amount	Role
Neutral Red	0.03 g	pH indicator

## PHYSICAL AND FUNCTIONAL PROPERTIES

<b>Reconstitution</b>	45.0 g/L
<b>Final pH</b>	7.4 ± 0.2 at 25 °C
<b>Prepared Medium</b>	Light red to pinkish agar
<b>Typical Colony Reaction</b>	Red “bull’s-eye” colonies with translucent border for presumptive <i>Y. enterocolitica</i>
<b>Incubation</b>	25–30 °C for 24–48 hours

## DIRECTIONS FOR USE

1. Suspend 45.0 g medium in 1 L purified or distilled water.
2. Heat with gentle agitation until fully dissolved.
3. Autoclave at 121 °C for 15 minutes.
4. Cool to 45–50 °C.
5. Add CIN selective supplement if not premixed and pour plates.
6. Allow plates to solidify and dry prior to inoculation.
7. Incubate inoculated plates at 25–30 °C for 24–48 hours.

## STORAGE AND STABILITY

<b>Dehydrated Medium</b>	15–30 °C, dry, tightly closed
<b>Prepared Plates</b>	2–8 °C, protected from light and dehydration
<b>Intended Use</b>	For laboratory use only
<b>Trade Description</b>	Prepared culture media for the development or maintenance of microorganisms

## DISCLAIMER

Technical data are provided for laboratory guidance and routine product use. Final suitability should be verified within the user’s own methods, matrices, and quality system.