

Listeria Enrichment Broth Base

Product No. CM505

Intended Use

Used for selectively enriching *Listeria*. (GB)

Specification 250 g

Ingredients	(g/L)
Peptone	5.0
Polypeptone	5.0
Sodium Chloride	20.0
Yeast Extract	5.0
Monopotassium Phosphate	1.4
Disodium Phosphate	12.0
Esculin	1.0
(pH 7.2 ± 0.2)	

Additional Reagents

Nalidixic Acid Supplement(C1)	5.0mg/vial×5
Acriflavine Supplement(C1)	3.0mg/vial×5
Nalidixic Acid Supplement(C2)	4.0mg/vial×5
Acriflavine Supplement(C2)	5.0mg/vial×5

Principle and Interpretation

Peptone, polypeptone and yeast extract provide nitrogen, vitamins and minerals. Monopotassium phosphate and disodium phosphate are buffering agents. Selectivity is provided by the presence of nalidixic acid and acriflavine in the formula. The high salt tolerance of *Listeria* is used as a means to inhibit growth of *enterococci*.

Directions

Suspend 49.4 g of the powder in 1 L of distilled water. Heat with frequent agitation and boil to dissolve completely. Autoclave at 121°C for 15minutes. To prepare LB1 broth, aseptically add the one vial of nalidixic acid supplement (Cat. No. P-18C1) and one vial of acriflavine supplement (Cat. No. P-19C1) to 225 mL base. To prepare LB2 broth, aseptically add the one vial of nalidixic acid supplement (Cat. No. P-18C2) and one vial of acriflavine supplement

(Cat. No. P-19C2) to 200 mL base. Mix well and dispense aseptically in sterile tubes.

Precautions

No

Quality Control

Microorganisms	Inoculum (CFU)	Reference Medium	Method	Incubatio n	Growth (Productivity Ratio : PR)
<i>Listeria monocytogenes</i> ATCC 19115	10-100 (LB2 300-500)	TSA	semiquantit ative	30℃±1℃ 24h±2h	>10CFU on the PALCAM agar plate, gray-black, with a black halo.
<i>Listeria monocytogenes</i> CICC 25021 [CMCC(B) 54012]					
<i>Escherichia coli</i> ATCC 25922	1000-5000	TSA	semiquantit ative		<100CFU on the TSA plate.
<i>Escherichia coli</i> CICC 25012 [CMCC(B) 43201]					
Enterococcus faecalis ATCC 29212	1000-5000	TSA	semiquantit ative		<100CFU on the TSA plate.
<i>Enterococcus faecalis</i> CICC 25019 [CMCC(B) 32482]					

Storage Conditions

Keep container tightly closed and store in a cool dry place.

Shelf Life

3 years.

Related Products

Product No.	Product Name	Specification
CM505-05	Listeria Enrichment Broth(LB2)	10 mLx20
CM505-05L1	Listeria Enrichment Broth(LB1)	10 mLx20
CM505-05L2	Listeria Enrichment Broth(LB2)	9 mLx20
CM505-06	Listeria Enrichment Broth(LB1)	225 mLx10
CM505-08	Listeria Enrichment Broth(LB1)	225 mLx6

For laboratory use in industry or R&D purpose. Not for drug, household or other uses.