
LISTERIA UVM 1 BROTH

Selective medium for *Listeria spp* enrichment.

TYPICAL FORMULA	(g/l)
Beef Extract	5.0
Sodium Chloride	20.0
Sodium Phosphate bibasic	12.0
Tryptose	10.0
Yeast Extract	5.0
Potassium Phosphate monobasic	1.35
Esculin	1.0
Nalidixic Acid	0.02
Acriflavine HCl	0.012
Final pH = 7.2 ± 0.2 at 25 °C.	

DIRECTIONS

Suspend 54.4 g of powder in 1 liter of distilled or deionized water. Heat until completely dissolved. Dispense into final containers. Sterilize in autoclave at 115°C for 15 minutes.

DESCRIPTION

LISTERIA UVM media are prepared according to the formulations described by Donnelly and Baigent and by MacCalin and Lee. Listeria UVM 1 and 2 are used for the two steps enrichment of *Listeria spp* in meat products.

TECHNIQUE

Add 225 ml of Listeria UVM1 Broth to 25 g or 25 ml of sample. Homogenize for 2 minutes. Incubate at 30 °C for 24 hours. Spread 0.2 ml of the incubated broth onto Listeria selective agar plates. After 24 hours add 1 ml to 4.5 ml of sterile KOH solution (2.5 g KOH and 20 g NaCl in 1000 ml of distilled water: pH over 12).

Mix for 1 minute and then subculture onto a Listeria selective agar plates. After 24 hours transfer 0.1 ml of Listeria UVM1 culture to 10 ml of Listeria UVM2 Broth. Incubate the secondary enrichment medium at 30 °C for 24 hours. Spread 0.2 ml of secondary enrichment medium on a Listeria selective agar plate. Add 1 ml to 4.5 ml of sterile KOH solution and proceed as before. Incubate the selective agar plates at 37 ± 1 °C for 24-48 hours, examine for typical colonies and carry on with identification tests by means of standard biochemical method.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

Prepared medium

Appearance: very slightly opalescent with a fine precipitate.

Color: light to medium amber.

Incubation conditions: 36 ± 1 °C for 18-48 hours.

Microorganism	ATCC	Growth
<i>Staphylococcus aureus</i>	25923	none
<i>Listeria monocytogenes</i>	19111	good
<i>Listeria monocytogenes</i>	13932	good



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STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared tubes at 2-8 °C.

REFERENCES

1. Donnelly, C.W., and G.J. Baigent. (1986). Appl. Environ. Microbiol. **52** : 689-695.
2. Lee, W.H., and D. McClain. (1989). Laboratory Communication N°57.(revised May 24, 1989). U.S.D.A., F.S.I.S. Microbiology division, Bethesda, MD.

PRESENTATION









Product	REF	
LISTERIA UVM 1 BROTH (9.1 l)	610031	500 g
LISTERIA UVM 1 BROTH (1.8 l)	620031	100 g

TABLE OF SYMBOLS

LOT Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests	 Keep away from heat source
REF Catalogue number	 Fragile, handle with care	 Use by	 Temperature limitation	



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