LISTERIA ENRICHMENT BROTH BASE, UVM – FRASER

A selective enrichment medium for the isolation of *Listeria monocytogenes* according to ISO 11290-1.

Dehydrated media	
Code number:	500 g: LEF20500, 5 kg: LEF25000
Colour:	Yellowish
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	7,0 – 7,4

Direction: Suspend **27,5 g** in 500 ml of distilled water and heat gently to dissolve the medium completely. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of **one vial of supplements below** reconstituted with 4 ml of 1:1 mixture of ethanol and sterile distilled water.

- for Fraser Broth: Listeria Selective Supplement, Fraser (LSF80004)

- for Half Fraser Broth: Listeria Selective Supplement, Half Fraser (LSH80004)

- for UVM I Broth: Listeria Selective Supplement, UVM I (LU180004)

- for UVM II Broth: Listeria Selective Supplement, UVM II (LU280004)

Mix well. Dispense aseptically into sterile final containers.

Prepared media	
Bottled media bases:	100 ml: LEF30100, 500 ml: LEF30500
Tubed Listeria Enrichment Broth, Fraser:	150 x 15 mm: LEF40010-TF (10 ml)
Tubed Listeria Enrichment Broth, Half Fraser:	150 x 15 mm: LEF40010-HF(10 ml)
Tubed Listeria Enrichment Broth, UVM I:	150 x 15 mm: LEF40010-U1(10 ml)
Tubed Listeria Enrichment Broth, UVM II:	150 x 15 mm: LEF40010-U2(10 ml)
Colour:	Yellowish
pH (25 °C):	7,1 – 7,3

Direction: Supplement the bottled media bases according to the direction of the dehydrated media and dispense aseptically into sterile final containers. Media in tubes are ready to use.

FORMULA in g/l

Meat peptone	5,00
Casein peptone	5,00
Beef extract	5,00
Yeast extract	5,00
Sodium chloride	20,00
Lithium chloride	3,00
Esculin	1,00
Potassium phosphate, monobasic	1,35
Sodium phosphate, dibasic (Equivalent to 12 g of Sodium phosphate dibasic x 2 H_2O)	9,65

Note: The typical formula can be adjusted to obtain optimal performance.

Storage conditions: Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled and tubed media protected from light at room temperature. Use before the expiry date on the label.

Quality control:

Test strains	Incubation temp: 37 °C	**Growth**	Incubation time: 24 h
Listeria monocytogenes	ATCC 19115	Good, in Fraser broths colour change to black	
Enterococcus faecalis	ATCC 29212	Inhibited	

References: Fraser and Sperber (1988) J. Food Protect. 51: 762.
ISO 11290-1: 2017

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