

**TECHNICAL SHEET**

<b>B1318</b>	<b>BUFFERED LISTERIA ENRICHMENT BROTH BASE</b>					
<b>Formula</b>						
<b>Ingredients:</b>		<b>gms/litre</b>				
Casein enzymic hydrolysate		17.00				
Papaic digest of soyabean meal		3.00				
Sodium chloride		5.00				
Dipotassium hydrogen phosphate		2.50				
Dextrose		2.50				
Yeast extract		6.00				
Monopotassium phosphate, anhydrous		1.35				
Disodium phosphate, anhydrous		9.60				
Sodium pyruvate		1.00				
Final pH (at 25°C): 7.3 ± 0.2						
<b>Directions:</b>						
Suspend 23.97 grams in 500 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45°C. Aseptically add the rehydrated contents of 1 vial of Listeria Selective Supplement II (BF075I). Mix well and dispense as desired.						
<b>Principle:</b>						
Casein enzymic hydrolysate and papaic digest of soyabean meal provide amino acids and other complex nitrogenous substances. Dextrose is the energy source. Sodium pyruvate aids in resuscitation of organisms. The phosphates provide buffering capacity. Sodium chloride maintains the osmotic equilibrium. Yeast extract provides vitamin B complex. The medium is rendered selective due to the inclusion of antimicrobial agents. Nalidixic acid inhibits the growth of gram-negative organisms, whereas acriflavin suppresses growth of gram-positive microorganisms						
<b>QC Tests - (I) Dehydrated Medium</b>						
	Colour:	Cream to yellow				
	Appearance:	Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
	pH (post autoclaving/heating) :	7.3 ± 0.2				
	Colour (post autoclaving/heating):	Yellow				
	Clarity (post autoclaving/heating):	Clear to slightly opalescent solution with slight precipitate				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 24-48 hours at 30°C.						
	ORGANISM (ATCC)	GROWTH				
	Escherichia coli (25922)	Inhibited				
	Listeria innocua (33090)	Good-luxuriant				
	Listeria monocytogenes (19111)	Good-luxuriant				
	Listeria monocytogenes (19112)	Good-luxuriant				
	Listeria monocytogenes (19118)	Good-luxuriant				
	Staphylococcus aureus (25923)	none-poor				
	Saccharomyces cerevisiae (9763)	none-poor				
<b>Precautions :</b>						
1. For Laboratory Use.						
2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.						
<b>Limitations :</b>						
1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.						
<b>Use:</b>						
It is recommended by FDA Committee for enrichment in isolation of Listeria monocytogenes						
<b>Storage:</b>						
Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
<b>Packing:</b>						
500 gm. bottle						
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1318</b>		47.94 g/l	10.42 L	7.3 ± 0.2	Listeria Selective Supplement II (BF075I)	121°C / 15 minutes

**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARK LABORATORIES publications.

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