LEE Broth (NCM0201)

Intended Use
Listeria Express Enrichment Broth (LEE Broth) is a selective enrichment broth for the detection of *Listeria* from foods and is not intended for use in the diagnosis of disease or other conditions in humans.

Description

Developed to give improved growth rates of *Listeria* over traditional selective enrichment media, LEE Broth enhances the expression of target antigens for most commercially available immunological test kits/methods whilst maintaining adequate suppression of potential non-target organisms. Selective components are blended into the powder, removing the requirement for supplementation.

Compared with more traditional methods, immunological tests, such as ELISA, require relatively high levels of target organisms to achieve a reliable positive result. LEE Broth has been specifically designed to stimulate growth from low numbers to the required high levels within a 24 hour period. Therefore, LEE Broth offers an excellent choice for laboratories employing immunological test methods for detection of *Listeria* in food products.

LEE Broth can be used as an enrichment broth prior to plating on selective media such as Harlequin® Listeria Chromogenic Agar ISO (NCM1004 / NCM3001); as secondary selective enrichment medium following primary enrichment in, for example, Half Fraser Broth (NCM0001 or NCM0066); or as the enrichment step of a rapid method e.g. ELISA, lateral flow device, PCR.

Typical Formulation

Peptone	13.0 g/L
Growth Enhancers	8.0 g/L
Buffer	22.2 g/L
Selective Mix	3.0 g/L

Final pH: 7.2 ± 0.2 at 25°C
Formula may be adjusted and/or supplemented as required to meet performance specifications.

Precaution
1. Refer to SDS

Preparation
1. Dissolve 46.2 grams of the medium in one liter of purified water.
2. Heat with frequent agitation to completely dissolve if necessary.
3. Autoclave at 121 °C for 15 minutes.

Test Procedure
Incubate at 30 °C ± 1 °C for 24 ± 1 hour (for optimum performance check at 24 hours precisely). Alternative incubation temperatures may be used if flagella are not the target antigen.

Quality Control Specifications
Dehydrated Appearance: Powder is homogeneous, free flowing and beige.

Prepared Appearance: Finished medium is a clear, dark straw liquid with yellow fluorescence.

Effective Date: 2/21/2019
Revision: 0

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Minimum QC:
Listeria monocytogenes WDCM 00020
Listeria ivanovii WDCM 00018
Enterococcus faecalis WDCM 00087 (inhibition)

Results
Refer to appropriate references for results.

Expiration
Refer to expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing or appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitations of the Procedures
Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

Storage
Store dehydrated culture media at 2-30°C away from direct sunlight. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

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