

## HiTouch™ *Listeria* Count *Flexi* plate

FL024

For isolation of *Listeria* species.

### Composition\*\*

Ingredients	Gms / Litre
Biopeptone	24.000
Lithium chloride	15.000
Sodium chloride	5.000
Esculin	1.000
Ammonium ferric citrate	0.500
Agar	10.000
Final pH ( at 25°C)	7.0±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Open the pouch in the protected area. Remove the wrapping and open the lid and carefully lift up the enclosed prepared medium plate so as to avoid touching the agar surface by hand. Touch the surface of agar plate onto the surface to be tested. Gently press the plate manually for up to 10 second. Apply constant and uniform pressure to the whole surface (ensuring that an even pressure of 25 gm/cm<sup>2</sup> is distributed over the whole plate for 10 seconds). Replace exposed medium plate back in the base plate. Close the lid. Press the sides of the lid to make sure that it is fixed in the grooves. Disinfect the surface where the sample was taken in order to remove any possible traces of agar. Incubate the plates at specified temperature. After incubation as recommended count the number of colonies which have appeared on the surface of medium. Alternative Methods of Inoculation: To use as (i) Culture Plate, (ii) Sample Dilution Plate,(iii) Swabbing Plate or to use as (iv) Gravitation Settling Plate.

### Principle And Interpretation

HiTouch *Flexi* Plates are specially developed for the microbial testing in food, pharmaceutical, cosmetic, dairy, hospitals, water works, environmental testing etc. These plates are handy and ready to use sterile media supplied in flexible disposable plates, 55 mm in diameter. It is grid scored on the base and is irradiated to ensure perfect sterility. Medium is filled aseptically and each plate is packed in pre-sterilized plastic bag. HiTouch *Flexi* Plate is then packed in plastic pouch wrapping. The unique flexible plate configuration ensures close contact even with uneven surfaces. Where not only counts are obtained but it is also possible to select and differentiate between groups of microorganisms like coliforms (both *E. coli* and non *E. coli* ). These plates are specially developed for microbial testing, The *Flexi* plate medium formula is suitable for isolation of *Listeria* species and the grids enable direct reading on the plates of the number of colonies per cm<sup>2</sup>.

*Listeria monocytogenes* is the only species of the genus *Listeria* that is important as a human pathogen. *Listeria seeligeri*, *Listeria welshimeri* and *Listeria ivanovii* have been related with animal diseases. In any case, all the species are pathogenic between the ovine and bovine cattle. Positive diagnosis of listeriosis can be obtained only by the isolation and cultivation of the responsible bacteria from blood or CSF samples of the affected organisms. *Listeria* Oxford Medium Base is based on the formulation described by Curtis et al (1) for isolation of *L. monocytogenes* from clinical and food specimens.

### Quality Control

#### Appearance

Sterile plastic plate containing dark amber coloured firm gel

#### Quantity of Medium

9ml of gel in plastic plate

#### Reaction

6.80- 7.20

**Sterility testing**

Passes release criteria

**Cultural response**

Cultural characteristics was observed after incubation at 35-37°C for 24-48 hours.

<b>Organism</b>	<b>Growth</b>	<b>Esculin hydrolysis</b>
<i>Bacillus subtilis</i> ATCC 6633	Inhibited	-
<i>Enterococcus faecalis</i> ATCC 29212	Inhibited	-
<i>Enterococcus hirae</i> ATCC 10541	Inhibited	-
<i>Listeria monocytogenes</i> ATCC 19111	Luxuriant	Positive, Black zone around colonies.
<i>Listeria monocytogenes</i> ATCC 19112	Luxuriant	Positive, Black zone around colonies.
<i>Listeria monocytogenes</i> ATCC 19117	Luxuriant	Positive, Black zone around colonies.
<i>Staphylococcus aureus</i> ATCC 25923	Inhibited	-

**Storage and Shelf Life**

Store between 2-8°C. Use before expiry date on the label.

**Reference**

1. Curtis G. D. W., Mitchell R. G, King A. F., Griffin E. J., 1989, Lett. Appl. Microbiol., 8:95
2. Van Netten P., Peroles I., Van de Mosdik A., Curtis G. D. W., Mossel D. A. A, 1988, Int. J. Food Microbiol., 6:187.
3. Hayes P. S, Feeley J. L, Groves L. M, Ajello G. W. and Fleming D. W, 1986, Appl. Environ. Microbiol., 51:438.
4. Fernandez G. J. F., Dominguez R. L., Vazzuez B. J. A., Rodriguez F.E.F., Briones D. V., Blanco L. J. L., Suarez F. G., 1986, Can. J. Microbiol., 32:149.

Revision : 1 / 2011

**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 HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.