

## MM0188 Listeria selective agar Oxford formulation

**Use and description:** This selective medium is used for selective isolation of *Listeria monocytogenes* from food and clinical samples. Its acriflavine HCl and lithium chloride content depress the growth of several Gram-positive and Gram-negative microorganisms. Esculin is there to differentiate the *L. monocytogenes* as it will hydrolyse it to esculitin which interacts with the iron citrate and forms black precipitate around the colonies. It conforms to NF EN ISO 11290-1 and Norme FIL 143A standards.

### **Composition per liter:**

Columbia agar base	41.0 g
Esculin	1.0 g
Ferric ammonium citrate	0.5 g
Lithium chloride	15.0 g

**Final pH of the ready to use medium:**  $7.2 \pm 0.2$

**Medium preparation:** Add 57,5 grams of dehydrated culture medium to 1 liter distilled water until evenly dispersed with stirring. Sterilised at 121 C° for 15 minutes. Cool to 45-50 C and add Listeria CCCAF supplement.

### **Quality specification:**

Dehydrated medium: homogeneous, light beige coloured, fine powder.  
Ready to use medium: amber solution

### **Microbiological response:**

Organisms	Result
<i>Listeria monocytogenes</i> ATCC 19115	Black/brown colonies with black halo
<i>Escherichia coli</i> ATCC 25922	inhibited
<i>Staphylococcus aureus</i> ATCC 25923	inhibited

**Storage:** Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or if the color has changed from the original.