

PRODUCT INFORMATION

PALCAM Agar

Cat. No. P16-140

DESCRIPTION

PALCAM Agar is used for the selective isolation and enumeration of *Listeria monocytogenes* from foods and environmental samples. Mannitol and Phenol Red have been added to differentiate mannitol-fermenting strains of possible contaminants. Polymyxin B, Acriflavin, Ceftazidime, and Lithium Chloride are selective agents used to suppress Gram-negative and certain Gram-positive bacteria.

FORMULA (g/L)

Columbia Blood Agar Base	43.0 g	Lithium Chloride	15.0 g
Agar	1.5 g	Mannitol	10.0 g
Yeast Extract	3.0 g	Ferric Ammonium Citrate	0.5 g
Esculin	0.8 g	Dextrose	0.5 g
Phenol Red	0.08 g		

Final pH: 7.2 ± 0.2 at 25 °C

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Mix 74 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring to dissolve completely. Distribute and autoclave at 121°C for 15 minutes. Cool to 45-50°C. Aseptically add sterile solution of Polymyxin B 10mg/L, Acriflavin 5.0mg/L and Ceftazidime, 20mg/L.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and beige with pink tint.
2. Visually the prepared medium is trace to slightly hazy and pink-red.
3. Expected cultural response after 18-48 hours at 35°C.

ORGANISM	RESULT
<i>Escherichia coli</i> ATCC 25922	Inhibition
<i>Enterococcus faecalis</i> ATCC 29212	Inhibition
<i>Listeria monocytogenes</i> ATCC 7644	Grey-green with black precipitate
<i>Staphylococcus aureus</i> ATCC 25923	Inhibition
<i>Listeria monocytogenes</i> ATCC 19114	Grey-green with black precipitate
<i>Listeria monocytogenes</i> ATCC 15313	Grey-green with black precipitate

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.