

Product Information

PLATE COUNT AGAR

Product Number **P6351**

Product Description

Plate Count Agar is recommended for the plate count of microorganisms in foods, water and waste water. Plate Count Agar is equivalent to the medium recommended by the American Public Health Association (APHA) for the isolation of microorganisms in milk and dairy products. Casein enzymatic hydrolysate provides amino acids and other complex nitrogenous substances. Yeast extract supplies vitamin B complex.

Components

Item	g/L
Casein Enzymic Hydrolysate	5.00
Yeast Extract	2.50
Dextrose	1.00
Agar	9.00

Final pH (at 25°C) 7.0 ± 0.2

Precautions and Disclaimer

For laboratory use only. Not for drug, household or other uses.

Preparation Instructions

Suspend 17.5 grams of Plate Count Agar in 1000 mls of distilled water. Sterilize by autoclaving at 15 lbs. pressure (121 °C) for 15 minutes. APHA recommends the pour plate technique. The samples are diluted and appropriate dilutions are placed in the petri plates. Sterile molten agar is added to the petri plates and the sample is mixed with the agar.

Storage

Store the dehydrated medium at 24 °C and the prepared medium at 2-8 °C.

Product Profile

Appearance	Light yellow colored, homogeneous, free flowing powder.
Gelling	Firm.
Color and Clarity	Light yellow colored, clear to slightly opalescent gel forms in petri plates.
Cultural Response	Cultural characteristics observed after 18-24 hours at 35-37 °C.

Organisms (ATCC) Growth

<i>Escherichia coli</i>	(25922)	luxuriant
<i>Staphylococcus aureus</i>	(25923)	luxuriant
<i>Bacillus subtilis</i>	(6633)	luxuriant
<i>Enterococcus faecalis</i>	(29212)	luxuriant
<i>Lactobacillus casei</i>	(9595)	luxuriant
<i>Streptococcus pyogenes</i>	(19615)	luxuriant

References

1. Standard Methods for the Examination of Dairy Products, (1992). Marshall, R. ed. 16th Edition APHA. Washington, D.C.
2. Compendium of Methods for the Microbiological Examination of Foods, (1992). Vanderzant, C., et al., eds. 3rd Edition APHA. Washington, D.C.
3. Standard Methods for the Examination of Water and Waste Water, (1992). Greenberg, A.E., et al., eds. 18th Edition, APHA. Washington, D.C.
4. American Type Culture Collection, Manassas, Va., U.S.A.

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