N9405 Nutrient Agar pH 6.8

Nutrient Agar pH 6.8 is used for the cultivation of bacteria and for the enumeration of organisms in water, sewage and feces.

Composition:

Ingredients	Grams/Litre
Peptic Digest of Animal Tissue	5.0
Beef Extract	3.0
Agar	15.0
Final pH 6.8 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C.
Appearance: Yellow colored, homogeneous, free flowing powder.
Gelling: Firm
Color and Clarity: Yellow colored, clear to slightly opalescent gel forms in a petri plate.

Directions:
Suspend 23 g of Nutrient Agar pH 6.8 in 1000 ml of distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes. If desired, the medium can be enriched with 5-10% v/v sterile defibrinated blood.

Principle and Interpretation:
Nutrient Agar is a basic culture medium. Beef extract contains vitamins, organic nitrogen compounds, and salts. Peptic Digest of animal tissue provides amino acids and long chain peptides for the microorganisms.

Cultural characteristics after 18-24 hours at 37°C.

Organisms (ATCC)	Growth
Escherichia coli (25922)	+++
Salmonella enteritidis (13076)	+++
Salmonella typhi (6539)	+++
Shigella flexneri (12022)	+++
Staphylococcus aureus (25923)	+++
Salmonella typhimurium (14028)	+++
Enterococcus faecalis (29212)	+++

References:

1. Standard Methods for the Examination of Water and Wastewater, (1985). Greenberg, A.E., et al., eds. 16th Edition. APHA. Washington, D.C.
2. American Type Culture Collection, Manassas, Va., U.S.A

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.