

17179 Nutrient Agar pH 6.0 with 0.8% NaCl

Used as a general purpose culture media.

Composition:

Ingredients	Grams/Litre
Peptic digest of animal tissue	5.0
Beef extract	3.0
Sodium chloride	8.0
Agar	15.0
Final pH 6.0 +/- 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.

Directions:

Suspend 31 g in 1 litre distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 121°C for 15 minutes.

Principle and Interpretation:

Nutrient Agar is a general purpose medium used for the examination of water and dairy products according to Standard Methods for the Examination of Water and Wastewater (1) and Dairy Products (2). It can also be used for cultivating several less fastidious microorganisms. In the third edition of Standard Methods of Water Analysis it has been recommended to use beef extract instead of infusion of meat in the Nutrient Agar preparations (3). Nutrient Agar with 0.8% NaCl and pH 6.0 is used for cultivation of bacteria requiring slightly acidic conditions. Nutrient media may be used as enriched media by the addition of 10% blood or other biological fluids like ascetic fluid, serum etc. Beef extract and peptic digest of animal tissue provide the necessary nitrogen compounds, carbon, vitamins and also some trace ingredients to the non-fastidious organisms like *Bacillus subtilis* and *Staphylococcus aureus*. Sodium chloride maintains osmotic equilibrium of the medium.

Cultural characteristics after 18-24 hours at 35°C.

Organisms (ATCC)	Growth
<i>Bacillus subtilis</i> (6633)	+++
<i>Candida albicans</i> (10231)	+++
<i>Staphylococcus aureus</i> (25923)	+++

References:

- Greenberg A.E., Trussell R.R. and Clesceri L. S. (Eds.), 1985, Standard Methods for the Examination of Water and Wastewater, 16th ed., APHA, Washington, D.C.
- American Public Health Association, 1978, Standard Methods for the Examination of Dairy Products, 14th ed., APHA, Inc., Washington, D.C.
- American Public Health Association, 1917, Standard Methods of Water Analysis, 3rd ed., APHA, Inc., Washington, D.C.

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.

