



PRODUCT DATA SHEET

NUTRIENT BROTH (W/O NaCl) pH 6.9

TM 327

general purpose medium for cultivation of microorganisms

Composition

Ingredients	Gms/Ltr.
Peptic digest of animal tissue	5.000
Beef extract	3.000

* Dehydrated powder, store in a dry place, in tightly-sealed containers at 24°C and protect from direct Sunlight.

Instructions for Use

Dissolve 8.00 gms in 1000ml of distilled water. Gently heat if necessary with gentle swirling and dissolve the medium completely. Sterilize by autoclaving at 15 psi (121°C) for 15 minutes. Mix well and dispense as desired.

Appearance: Light amber coloured clear

PH (at 25°C): 6.9 ± 0.2

Principle

NUTRIENT BROTH (W/O NaCl) pH 6.9 is used general purpose medium for cultivation of microorganisms. This medium has the formula originally developed for use in Standard Methods for the Examination of Water and Waste Water. If this medium is incorporated with 6.5% sodium chloride, then it acts as a differential and selective agent by interfering with the osmotic balance and the permeability of membrane of majority of microorganisms. Beef extract and peptic digest of animal tissue support the growth of non-fastidious microorganism.

Interpretation

Cultural characteristics observed after incubation at 35 - 37°C for 18 - 48 hours.

Microorganisms	ATCC	Inoculum (CFU)	Growth
<i>Enterobacter aerogenes</i>	13048	10^3	Good-luxuriant
<i>Enterococcus faecalis</i>	29212	10^3	Good-luxuriant
<i>Escherichia coli</i>	25922	10^3	Good-luxuriant



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<i>Salmonella Typhi</i>	6539	10 ³	Good-luxuriant
<i>Staphylococcus aureus</i>	25923	10 ³	Good-luxuriant
<i>Staphylococcus epidermidis</i>	12228	10 ³	Good-luxuriant

References

1. Clesceri L. S, Greenberg A. E. and Eaton A. D., (Eds.), 1998, Standard Methods for the Examination of Water and Wastewater, 20th Ed., APHA, Washington, D.C.
2. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.