

## Technical Information

### Nutrient Broth, pH 6.9 w/o NaCl

#### Product Code: DM 1088

**Application:** Nutrient Broth, pH 6.9 without NaCl is recommended as general purpose medium for the cultivation of microorganisms.

#### Composition\*\*

Ingredients	Gms / Litre
Peptic digest of animal tissue	5.000
Beef extract	3.000
Final pH ( at 25°C)	6.9±0.2

\*\*Formula adjusted, standardized to suit performance parameters

#### Principle & Interpretation

Nutrient Broth with pH 6.9 and without of NaCl is a relatively simple formulation containing beef extract and peptic digest of animal tissue which can support the growth of non-fastidious microorganisms. It has the composition originally developed for use in Standard Methods for the Examination of Water and Waste Water <sup>(1)</sup>. 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 and can also be used to determine salt tolerance of bile esculin positive Enterococci <sup>(2)</sup>.

#### Methodology

Suspend 8 grams Of powder media in 1000 ml distilled water. Shake well & heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

#### Quality Control

##### Physical Appearance

Cream to yellow homogeneous free flowing powder

##### Colour and Clarity of prepared medium

Light amber coloured clear solution without any precipitate

##### Reaction

Reaction of 0.8% w/v aqueous solution at 25°C. pH : 6.9±0.2

pH Range 6.70-7.10

##### Cultural Response/ characteristics

DM 1088: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth
Enterobacter aerogenes ATCC 13048	50-100	good-luxuriant
Enterococcus faecalis ATCC 29212	50-100	good-luxuriant
Escherichia coli ATCC 25922	50-100	good-luxuriant
Salmonella Typhi ATCC 6539	50-100	good-luxuriant
Staphylococcus aureus ATCC 25923	50-100	good-luxuriant
Staphylococcus epidermidis ATCC 12228	50-100	good-luxuriant



Dehydrated Culture Media  
Bases / Media Supplements

## Storage and Shelf Life

**Dried Media:** Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

**Prepared Media:** 2-8° in sealable plastic bags for 2-5 days.

## Further Reading

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.

## Disclaimer :

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