

## 03856 Nutrient Broth No 4

Universal broth for the cultivation of less critical microorganisms.

### Composition:

Ingredients	Grams/Litre
Meat peptone	5.00
Meat extract	3.00
Final pH 7.0 ± 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:

Dissolve 8 g in 1 litre water, autoclave for 15 Minutes at 121°C.

### Principle and Interpretation:

The nutrient broth No 4 comply with the recommendations of the APHA for the examination of foods (1992). With the addition of 0.05 % potassium tellurite is an excellent enrichment medium for *Listeria monocytogenes*.

Meat peptone and meat extract provide necessary nitrogenous and carbonous nutrients.

Cultural characteristics after 24 hours at 35°C.

Organisms (ATCC)	Growth
<i>Staphylococcus aureus</i> (25923)	+++
<i>Streptococcus pyogenes</i> (12344)	+++
<i>Listeria monocytogenes</i> (19118)	+++
<i>Escherichia coli</i> (25922)	+++
<i>Salmonella typhimurium</i> (14028)	+++
<i>Pseudomonas aeruginosa</i> (27853)	+++
<i>Bacillus cereus</i> (11778)	+++

### References:

1. American Public Health Association: Compendium of methods for the microbiological examination of foods, 3<sup>rd</sup> ed., (1992)
2. M.L. Gray, H.J. Stafseth, F. Thorp, The use of potassium tellurite, sodium azide, and acetic acid in a selective medium for the isolation of *Listeria monocytogenes*, J. Bact., 59, 443-444 (1950)

### 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.

