

Enterobacteria Enrichment Broth

Catalog : HB0126-8

Enterobacteria Enrichment Broth (EE Broth) is used for the enrichment cultivation of Enterobacteria.

Approximate Formula:

Ingredients	gm/liter
Peptone	10.0
Glucose	5.0
Disodium hydrogen phosphate	8.0
Potassium dihydrogen phosphate	2.0
Bile salt	20.0
Brilliant green	0.015
Final pH7.2±0.2 at 25℃	

*Adjusted and/or supplemented as required to meet performance criteria.

Directions:

Suspend 45.0g of the medium in one liter of deionized or distilled water. Mix well and heat with frequent agitation. Heat at 100℃ for 30 minutes, cool rapidly in cold running water. DO NOT AUTOCLAVE.

Principle and Interpretation:

Peptone provides protein, vitamins, and amino acids; Glucose provides the carbon source; Disodium hydrogen phosphate and potassium dihydrogen phosphate are buffering agents; Bile salts and brilliant green are selective bacteriostatic agents to inhibit the growth of non-enterobacteriaceae bacteria, and brilliant green is also used as pH indicator.

Appearance:

Dehydrated medium is a free-flowing yellowish-green powder. The prepared medium is a kind of green transparent liquid.

Precautions:

This medium is for laboratory use only. Dried medium which is past shelf life, caking or color variation cannot be used.

Storage conditions and Shelf life:

Enterobacteria Enrichment Broth must be stored tightly capped in the original container at 5-30℃. The dehydrated medium has a shelf life of 5 years from date of manufacturing. Prepared medium may be stored, out of direct light at 2-8℃.

Quality control:

Prepare the culture medium as per label directions. Inoculate and incubate at 36±1℃ for 24-48 hours.

Microorganism	Strains Number	Inoculum (CFU)	Growth
<i>Pseudomonas aeruginosa</i>	ATCC 27853	10-100	Luxuriant
<i>Staphylococcus aureus</i>	ATCC 6538	1000-5000	Inhibited
<i>Escherichia coli</i>	ATCC 25922	10-100	Luxuriant

References:

1. United States Pharmacopeial Convention, Inc. 2008. The United States pharmacopeia 31/The nationalformulary 26, Supp. 1, 8-1-08, online. United States Pharmacopeial Convention, Inc., Rockville,Md.
2. European Directorate for the Quality of Medicines and Healthcare. 2008. The European pharmacopoeia,6th ed., Supp. 1, 4-1-2008, online. European Directorate for the Quality of Medicinesand Healthcare, Council of Europe, 226 Avenue de Colmar BP907-, F-67029 Strasbourg Cedex 1,France.
3. Japanese Ministry of Health, Labour and Welfare. 2006. The Japanese pharmacopoeia, 15th ed.,online. Japanese Ministry of Health, Labour and Welfare.