Enterobacteria Enrichment Broth

Catalog : HB0126-8-5K

Enterobacteria Enrichment 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. Dispense 90ml into flasks, 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 powder. The prepared medium is a kind of blue-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°C. 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°C.

Quality control:

Cultural characteristics observed after an incubation at 36±1 ℃for 18-24 hours.

Microorganism	Strains Number	Inoculum (CFU)	Recovery
Escherichia coli	ATCC25922	20-200	Good
Enterobacter cloacae	ATCC23355	20-200	Good
Salmonella typhimurium	ATCC14028	20-200	Good
Staphylococcus aureus	ATCC25923	100-1000	Inhibition

References

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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.

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