Azide Dextrose Broth

Catalog: HB0266-4-5K

Azide Dextrose Broth is used for enrichment cultivation of Streptococcus.

Approximate Formula:

Ingredients	gm/liter
Pancreatic digest of casein	15.0
Beef extract	4.5
Sodium chloride	7.5
Glucose	7.5
Sodium azide	0.2

Final pH7.0-7.4 at 25℃

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

Directions:

Suspend 34.7g of the medium in one liter of deionized or distilled water.Mix well and heat with frequent agitation. Dispense into sterile test tubes or flasks. Sterilize in an autoclave at 121℃(15 lbs.) for 15 minutes.

Principle and Interpretation:

Pancreatic digest of casein and beef extract provide nitrogen source, vitamins and growth factors; Glucose provides the carbon source; Sodium azide can inhibit Gram-negative bacteria. Sodium chloride maintains a balanced osmotic pressure.

Appearance:

Dehydrated medium is a free-flowing yellowish powder. The prepared medium is a kind of yellowish 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:

Azide Dextrose 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 aerobic incubation at 36±1℃for 24±2 hours.

Microorganism	Strains Number	Inoculum (CFU)	Recovery
Staphylococcus aureus	ATCC25923	100-1000	Inhibition
Escherichia coli	ATCC25922	100-1000	Inhibition
Enterococcus faecalis	ATCC29212	20-200	Good

References

1. Rothe. 1948. Illinois State Health Department.

2. Mallmann and Seligmann. 1950. Am. J. Public Health 40:286.

3. Larkin, Litsky and Fuller. 1955. Appl. Microbiol. 3:98.

4. Splittstoesser, Wright and Hucker. 1961. Appl. Microbiol. 9:303.

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