CLOSTRIDIUM DIFFICILE LAB-AGAR™ BASE **REF. PS 176**

Selective medium for the isolation of Clostridioides difficile from feces.

Formula in g/L

Proteose peptone	40,00	Fructose	6,00
Sodium chloride	2,00	Magnesium sulphate	0,10
Disodium hydrogen phosphate	5,00	Potassium dihydrogen phosphate	0,90
Agar	15,00		

Final pH at 25°C: 7,3 ± 0,2

Principle:

Clostridium difficile LAB-AGAR™ is a selective medium for the isolation of Clostridioides difficile. Proteose peptone provides nitrogen, vitamins, mineral and amino acids essential for growth. Fructose is the fermentable carbohydrate used to enhance recovery and growth of. C. difficile. Disodium phosphate and monopotassium phosphate act as a buffer system. Magnesium sulphate ion required in a large variation of enzymatic reactions, including DNA replication. Sodium chloride supplies essential electrolytes for transport and osmotic balance. Sheep blood provides essential growth factors in Clostridium difficile LAB-AGAR™. The selective agents D-Cycloserine and cefoxitin inhibit the growth of most Enterobacteriaceae, as well as E. faecalis , staphylococci, non-sporing anaerobic bacilli and Clostridium spp. except C. difficile), which may be found in large quantities in fecal samples.

Preparation: suspend 34.5 grams of the medium in 460 ml of distilled water. Mix well and dissolve by heating with frequent agitation until complete dissolution. Sterilize in autoclave at 121ºC for 15 minutes. Cool to 45-50ºC and 35 ml defibrinated sheep blood and one vial of Clostridium Difficile Selective Supplement (ref. SL 0048), previously reconstituted in 4 ml of sterile distilled water and 7% sterile defibrinated horse blood. Homogenize gently and dispense into Petri dishes. Be careful to avoid bubble formation when adding the blood and rotate the flask or bottle slowly to create a homogeneous solution.

The prepared medium should be stored at 8-15°C.

Procedure:

★ Use the medium with the normal laboratory procedures, incubate the inoculated plates at 37°C for 24-48 hours in anaerobic conditions

Result:

★ After 48 hours Clostridium difficile colonies grow circular, raised, opaque grey, sometimes with irregular borders, and 4-6 mm in diameter.

Storage / Shelf life

★ Once opened keep powdered medium closed to avoid hydration at 2 - 30°C
★ The expiration date is indicated on the label.

Packaging: 500 g

Supplement: Clostridium difficile Selective Supplement 10 vials. 1 vial /500 ml Ref. SL0048

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