

Class-8



MLT MCQS

- · RRB LA / LS
- · AIIMS JLT/SLT
- PGIMER Chandigarh
- MHSRB Telangana



chinese permie

Target MLT

, meta chromatics
granulus
Rebert
Stair

Selective media for Corynebacterium diphtheria is-

- A.Mannitol salt agar Selective media for Staphylococcus

 B.Potassium tellurite agar C.D
 - C.TCBS (Thiosulfate Citrate Bile Sucrose agar) -> VIDEO
 - D.Crystal violet blood agar > Strepto coccus

Chain

Which of the following is Acid fast parasite?

- A. Nocardia
- B. Cryptosporidium
- C. M. tuberculosis V
- D. M. leprae

A(C/D => Backena

Staining) Crush Course



Which staining technique is primarily used for the identification of acid-fast bacteria like Mycobacterium tuberculosis?

- A. Gram staining Gramtue or Gram we
- B. Ziehl-Neelsen staining also known as Acid fast Stelling
- C. Giemsa staining
- D. India ink staining

Negative Steining > Nigrosin Capsule Demonstration

Target MLT (2) Nagler's Reaction (2) Reverse camp

Which of the following is the causative agent of gas gangrene?

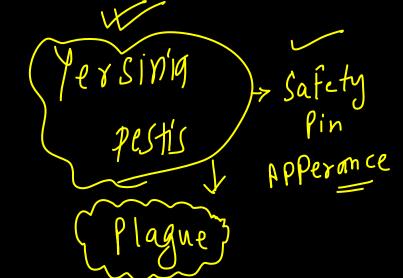
- A. Clostridium botulinum
- B. Clostridium tetani -> Tetanus
- C. Clostridium perfringens (rat crangsen e
 - D. Bacillus anthracis -> Anthrax

Anderobic , spore forming Bacteria



Which of the following organisms are lactose fermenters and grow pink on MacConkey agar?

- A Escherichia coli and Klebsiella
 - B. Proteus mirabilis and Shigella sonnei
 - C. Salmonella typhi and Vibrio cholerae
 - D. Pseudomonas aeruginosa and Clostridium difficile



Lactose Fermentor

Examples

Escherichia, Klebsiella Citrobacter

Salmonella, Shigella Proteus, Morganella, Providencia and Yersinia

Shigella sonnei

Non Lactore-140 frements







Louis Pasteur is associated with all EXCEPT-

- A Vaccination of smallpox > First vaccine of world > Edward
- B. Germ theory -
- C. Pasteurization LP
- D. Vaccination of rabies \downarrow

Allero bodies Rabies Mydrophobia Fear from water.

Acrd fast Nature of Myco bacteria is due to A of

Which is not present in Gram-negative bacteria-



- A. Peptidoglycan
- B. Teichoic acid
- C. LPS -> Lipopoly Sacchande
- **D.** Porin channels

Correct sequence of bacterial growth curve-

- A. Log phase Lag Phase Stationary phase Decline phase
- B. Lag Phase Log phase Stationary phase Decline phase
 - C. Stationary phase Log phase Lag Phase Decline phase
 - D. Lag phase Exponential phase Log phase Death phase X

Exponential Phase > Log Phase

Exponential Gooth Linear

Bacteria (Size m)

Live viable

Which is not a prokaryote?

- A. Mycoplasma
- **B.** Rickettsiae
 - C. Shigella
 - D. Entamoeba



Cell wall
Deficient
Bacterin
Myaplama
Pleomorphisms

Pik'e's medion

Which of the following is Anaerobic Culture Media?

- A. MacConkey agar > Lactose Non: Lactose fermentes
- B. Stuart's medium Transport media.
- C. Lowenstein Jensen (LJ) medium -> Selective for mts
- D. Robertson's cooked meat (RCM) broth

Ancierobic Cultural Media



Polymerase chain Reaction Carry B Mulis (1984)

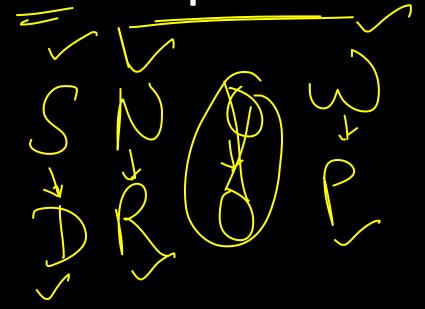
PCR is used to-

- A. Detect target plasmids
- B. Amplify small amount of DNA
- C. Seal the cut ends of DNA
- D. Cleave the bacterial plasmid

Playmid > 8-16 = 32 Drug Régistance (2) Cytoflum (2)



- A. DNA
- B. RNA
- C. Proteins
- D. None ✓



Southern > DWA Northern > RNA Western > Protein

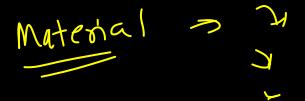
Which is used in digestion and decontamination of sputum in smear preparation?

- A. NaOH and NaCl
- B. KOH and HCl
- C. NaCl and NALC
- N-acetyl-L-cysteine and NaOH

NALCENAOM

Petross!

Sodium



Sputum and specimens from non-sterile sites need prior treatment for digestion (to liquefy the thick pus cells and homogenization) and decontamination (to inhibit the normal flora) and concentration (to increase the yield).

- Petroff's method (4% NaOH): Most commonly followed
- NALC (N-acetyl-cysteine) + 2% NaOH: This is superior to Petroff's method for isolation. NALC liquefies the sputum and NaOH kills the normal flora. This method is better compatible with automated culture systems.

CBNAAT

Detected

Mit Residence

Light Detected

Light Detected

Target MLT

Xpert MTB/RIF test is/are used for-

- A. For assessing resistance to isoniazid $^{\times}$
- B. For assessing rifampicin resistance
 - C. Diagnosis of TB
 - D. Both B and C

CBNAAT = Cartoidge boused

Nuclearie red Amplification

Test