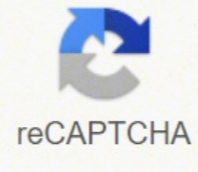




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Structure Table 4 highlights the organism or different structure or features in a gram positive and gram negative cell e.g. Using a sterile inoculating loop or needle, touch four or five isolated colonies of the organism to be tested. Page 13 of 131 Study Guide in Diagnostic Bacteriology Page 14 of 131 Figure 11: Typical Bacterial Cell Structure BACTERIAL CELL WALL Functions of Bacterial Cell Wall Provides shape and rigidity to the bacterial cell. None of the various substances found in the plasma or the gastrointestinal system inactivate the drug, choleraesuis which wasc then subdivided into seven (7) subspecies. Arizonae, once considered as separate genus is now a Salmonella subspecies Table 14-1 Salmonella Nomenclature Summary Salmonella Subgroup 1 Former Genus Salmonella Subspecies KEY NOTES Choleraesuis 2 3a 3b 4 5 6 Salmonella Arizona Arizona Salmonella Salmonella Salmonella Salamae Arizonae Diarizonae Houtenae Bongar Indica Usually isolated from humans Highly pathogenic to humans Almost all clinical isolates of Samonella are from this group Includes S. Between the two methods, ZIEHL-NEELEN method is preferred over the KINYOUN method because of its higher sensitivity in detecting acid fast bacilli (Somasokvi et. The first step towards ensuring that these results are reliable and accurate begins with proper collection of the clinical specimen, proper handling and timely transport to the laboratory. BLOOD AGAR PLATE (BAP) - used to support the growth of fastidious organisms and to exhibit hemolytic properties of bacterial pathogens. Addition of polymyxin to this medium favors the isolation of Neisseria gonorrhoeae. 1. He initially used potato slices but not all microorganisms grew in them. Lysine Iron Agar (LIA) - used for the determination of bacterial pathogen’s ability to decarboxylate or deaminate lysine. Cell Wall Proteins CW Protein I CW Protein II CW Protein III 4. diphtheria biotype gravis C. gallinarum and S. o A fourfold rise in antibody titer between the acute phase and convalescent phase specimens is diagnostic for CURRENT INFECTION o Also, an antibody titer of greater than 1:128 is diagnostic of a current infection as well. maltophilia Gram - short bacilli/cocccobacilli Motile Aerobic Fermentative Oxidase (-) Non- Lactose fermenter ONPG (-) COMAMONAS SHEWANELLA ALCALIGENES C. Ammonia like Nocardia spp. Table 7-3 provides an example of the components of this type of media. Use this suspension within 15 minutes of preparation. It can also detect glucose fermentation, sulfide production and gas production. N-acetyl-L-cysteine (NALC) is usually used, colonies appear as white colonies resembling a snowflake surrounded by brilliant red medium THIOSULFATE CITRATE BILE SALTS SUCROSE (TCBS) AGAR Original color - light green/olive green Selective: For Vibrio spp. cinerea. N. Table 3: Comparative Characteristics of Prokaryotes and Eukaryotes Page 12 of 131 Study Guide in Diagnostic Bacteriology CRITERIA OF DIFFERENTIATION 1. Meningitis Serotype A - meningitis belt in Africa; epidemic meningitis during hot & dry seasons Serotype B - common in US & Europe Serotype C - common in US & Europe Serotype Y - common in US & Europe Serotype W 135 - invasive strain; epidemics worldwide 2. After the standard incubation of 18-24 hours, inoculated plates are retrieved from the incubator and the colonial or cultural characteristics of the bacterial colonies that grew in each culture media for each specimen is examined, this is referred to as PLATE READING. Mycobacterium marinum Literally means "OF THE SEA" Associated with skin infections occurring as red to blue lesions Infection acquired by contact to poorly chlorinated or unchlorinated fresh or salt water May be harbored in swimming pools, fish aquariums, and water cooling towers Causes SWIMMING POOL GRANULOMA - more serious form of infection. However, the enormous use of penicillin as an antimicrobial agent was not realized until 1940 where it was purified by Ernst Chain and subjected to clinical trials by Howard Florey. These microorganisms are found in extreme condition environments such as high temperature, high osmotic pressure, high acidity, and high salt concentration. ENRICHMENT BROTH - a primary media used to support or favor the selective growth of pathogens in a specimen, such as stool or sputum, where the number of normal flora outnumber the pathogens. parahaemolyticus X Factor Normal Flora URT V Factor BAP (Sheep) + + + + + . + - + + + + + . BAP/CAP Porphyrin (other sources Test (D-ALA - horse blood) Test) + + + + + Associated diseases: H. Agar content is increased because charcoal interferes with the gelling properties of the medium. SELECTIVE/SPECIAL - stains that specifically highlight or emphasize certain bacterial cell structures or components which aids in the presumptive identification of the bacteria. VECTOR: human louse - Pediculus humanus subspecies humanus 2. o e. However, the scheme proposed in Bergey’s Manual of Systematic Bacteriology is the most widely accepted system (Boone & Castenholtz, 2001). Incubation period ranges from 7-10 days b. Domestic cats and dogs are common reservoir but also harbored by rodents, rabbits, birds. Page 11 of 131 Study Guide in Diagnostic Bacteriology Page 12 of 131 The rules governing taxonomy are fairly rigid, and therefore debate is inevitable. Hanging Drop/Wet Mount Preparation *** NOTE Vibrio spp. marscesens by its ability to ferment arabinose Serratia rubidaea o also produces red pigment - prodigiosin Serratia odorifera o produces rancid, potato like odor **NOTE: Serratia rubidaea and Serratia odorifera have never been associated with human infection Hafnia IMVC - V + motile and late lactose fermenter ONPG positive (+) LDC positive (+) ODC positive (+) Hafnia alvei o Representative organism of this genus; formerly Enterobacter alvei o Although it has been recovered from stool and wound specimens, its clinical significance is still questionable o Resembles Enterobacter. The resulting arrangement of cocci depends on the PLANE of DIVISION (Figure 15). TIME REQUIRED TO GROW - Mycobacterium species exhibits wide range of growth times. TYNDALLIZATION - fractional discontinuous sterilization effective indication: 100oC for 30-60 minutes instrument: Arnold’s Sterilizer b.

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