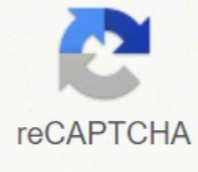




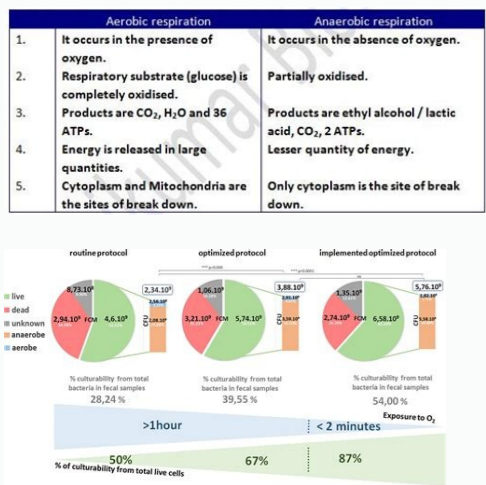
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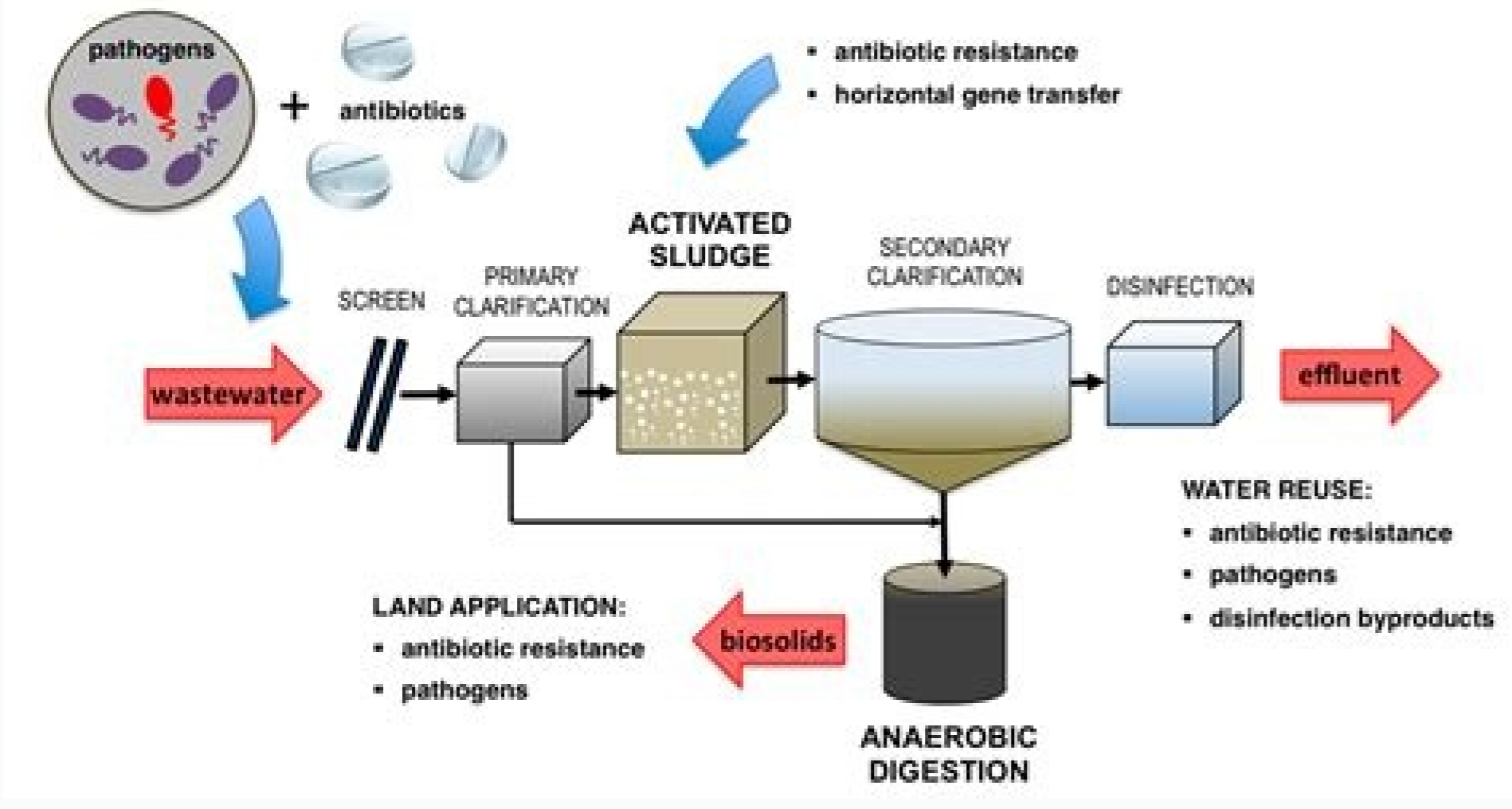
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# Cultivation of aerobic and anaerobic bacteria pdf

Genus	Substrate	Product
<i>Streptococcus</i>	Glucose	CO <sub>2</sub> , H <sub>2</sub>
<i>Enterococcus</i>	Glucose	CO <sub>2</sub> , H <sub>2</sub>
<i>Peptococcus</i>	Glucose	CO <sub>2</sub> , H <sub>2</sub>
<i>Peptostreptococcus</i>	Glucose	CO <sub>2</sub> , H <sub>2</sub>
<i>Streptococcus</i>	Glucose	CO <sub>2</sub> , H <sub>2</sub>
<i>Enterococcus</i>	Glucose	CO <sub>2</sub> , H <sub>2</sub>
<i>Peptococcus</i>	Glucose	CO <sub>2</sub> , H <sub>2</sub>
<i>Peptostreptococcus</i>	Glucose	CO <sub>2</sub> , H <sub>2</sub>



Bacteria	Anaerobic/Aerobic	Roles
<b>Proteobacteria</b>		
<i>Betaproteobacteria</i>		
<i>Alcaligenes spp.</i>	Aerobic	Unknown
<i>Rhodospirillum rubrum</i>	Anaerobic	Denitrification <sup>[1]</sup>
<i>Acidovorax</i>	Anaerobic	Denitrification <sup>[1]</sup>
<i>Brachymonas</i>	Anaerobic	Degradation of hydrocarbon <sup>[1]</sup>
<i>Thiobacillus</i>	Anaerobic	Sulfur cycling <sup>[1]</sup>
<i>Hydrogenophaga</i>	unknown	Benzene degradation <sup>[1]</sup>
<i>Gammaproteobacteria</i>		
<i>Acinetobacter sp.</i>	Aerobic	Degradation of cyclopentyl carboxylic acid (CCP) and cyclohexyl carboxylic acid (CCH), examples of naphthenic acids <sup>[5]</sup>
<i>Pseudomonas</i>	Aerobic	Biofilm former and hydrocarbon degrader <sup>[1]</sup>
<i>Thioalkalimicrobium</i>	Aerobic	Sulfur Oxidation <sup>[1]</sup>
<i>Deltaproteobacteria</i>		
<i>Syntrophobacterales</i>	Anaerobic	Sulfate reduction <sup>[6]</sup>
<i>Desulfovibrio</i>	Anaerobic	
<i>Desulfobacter</i>	Anaerobic	
<i>Desulfococcus</i>	Anaerobic	
<i>Desulfonema</i>	Anaerobic	
<i>Desulfuromonas spp.</i>	Anaerobic	Sulfur reduction <sup>[10]</sup>
<i>Syntrophus spp.</i>	Anaerobic	Fermentation of hydrocarbons into acetate and H <sub>2</sub> <sup>[9]</sup> [20] [21]
<i>Smithella</i>	Anaerobic	Fermentation of hydrocarbons into acetate and H <sub>2</sub> <sup>[9]</sup> [20] [21]
<b>Firmicutes</b>		
<i>Clostridia</i> ( <i>Desulfotomaculum</i> )	Anaerobic	Sulfate reduction <sup>[6]</sup>
<b>Chloroflexi</b>		
<i>Chloroflexi</i>	Facultative aerobes	Unknown
<b>Actinobacter</b>		
<i>Cellulomonas</i>	Anaerobic	Unknown



Cultivation of aerobic and anaerobic bacteria ppt. Examples of aerobic and anaerobic bacteria. Cultivation of aerobic and anaerobic bacteria slideshare. What are aerobic bacteria. Can bacteria be aerobic and anaerobic. How does anaerobic bacteria grow. What is anaerobic and aerobic bacteria. Cultivation and isolation of pure cultures of aerobic and anaerobic bacteria.

Double-layer biosensor for real-time monitoring of alkyl metabolism. Plos one. 2015; 8: 84. Article e Cas e PubMed e PubMed Central Worn e Google Scholar e Zhang H, Li Z, Pereira B, Stephanopoulos G. Dr.T.V.RAO MD 53. 2012; 5: 64. article e Cas e PubMed e PubMed Central ... Google Scholar e Wang Z, Cao G, Zheng J, Fu D, Song J, Zhang J, et al. Biotechnol Adv. Anaerobic Bacteria Medical Interest 17 Morphology Gram Macchia Genus Spore Formation (+) Clostridium Non-Spor Bacilli Training Actinomycetes, Bifidobacterium, Eubacter, (+) Rium, Propionibacterium, Mobiluncus, Lactobacillus (-) Bacteroides, Fusobacterium Detella, Porfiromonas Non-sporing Cocci Peptococcus, (+) Pepto-Streptococcus Streptococcus (-) Veilonella Dr.T.V.RAO MD 18. Jar Anaerobic 1. Genetic manipulation of the Byrate formation paths in Clostridium Butyricum. BMC SYST BIOL. Engineering E. Dr.T.V.RAO MD 43. Metabolism Evaluation Using stoichiometry in biohydrogen fermentative. 2011; 36: 10701 e a. ~ "8. article e Cas-Google Scholar e Lehtinen T, Ephemova E, Santala S, Santala V. Improvement of fat aldehydic and the production of wax ester by overexpression of acyl-coa reductions . Dr.T.V.RAO MD 23 common human anaerobic infections 24. Urine overcast and categorized are contaminated by distal urethral anaerobes and are therefore unacceptable for anaerobic cultures. 1961; 81: 694 - 703. Cas e PubMed e PubMed Central ... Google Scholar e Santala S, Ephemova E, Karp M, Santala V. These infections include brain abscesses, pulmonary abscesses, pulmonary lungs, suction lungs and dental infections. Appropriate samples for anaerobic culture: 1. Accepted samples for processing Anaerobica are the following 38 A, abdominal A, A abdominal abscess A, abdomen abdominal A, a a a a a e " urinary tract, fluid and fabric A, a is genital stretch A, A suprapubic aspirates A, A ulcers / wounds A, A exemplary of cultioles, endometric pads A, A other A, a sucked / pus buffer from deep pockets or from under the skin edges A, "which were States A, deep texture or bone lesions, Bone marrow, synovial fluid, a, fabrics dr.t.v.roo md 39. In general, the best materials for anaerobic cultures are obtained by aspiration of the needle and biopsy of the capable tissues 2007; 32: 1728 - 35. Article e Cas-Google Scholar e Cai G, Jin B, Saint C, Monis P, 75 A, the program was created by Dr.T.V.RAO for A e a, ~ and a, ~ Learning resources to microbiologists in the developing world. The pads are the least desirable due to the small amount of the sample and the effect of drying Exhaust pulling Odoroso A, A 2. Anaerobic glove chamber 68 d. Dr.T.V.RAO MD 5. Anaerobic pads are discouraged but sometimes cannot be avoided. Dr.T.V.RAO MD 66. Comparison of growth, of the production of acetate and inhibition of the acetate of Escherichia coli strains in batch and batch fluid fermentation. The distribution of a metabolic path between a microbial consortium improves the production of natural products. Of course, the correct label for identification with date and time of collection should accompany all the specimens presented for culture. Energy Environ sci. Pleuric fluid 3. Transport of 50 A, tubes and / or devices Anaerobic Transport and / or devices should always be available at the front Or. A e a, ~ a e reaction A e a, ~ a e kcal / stoepymetry mol A e a, ~ a e aerobics A e a, ~ a e cho A e a, ~ a e a e o2 A e a, ~ a e a a a a, ~ C6H12O6 + 6O2 ==> A e a, ~ A e 686 Breathing 6co2 + 6h2o A e a, ~ a e Nitrate reduction A e a, ~ a e Cho a, ~ a e a e No3- A e a, ~ a e a a a e CHO + H + ==> A e a, ~ A e 649 CO2 + N2 + H2O A e a, ~ a e Sulphate reduction A e a, ~ a e CHO A e a, ~ a e SO42- A e a, ~ a e 2cho + SO42- + 2h + A e a, ~ a e a e 190 => 2co2 + h + 2h2o A e a, ~ a e methanogenesis A e a, ~ a e cho A e a, ~ a, ~ a e CO2 A e a, ~ a e 4H2 + CO2 ==> CH4 + A e a, ~ A e 8.3 or H2 2H2O MD Dr.T.V.V.RAO 7 8. 59 McIntosh & FildeA, A "Jar A, hydrogen gas is transmitted in A, A e a, ~ a e Catalyest helps to combine hydrogen and o2 A, a A e a, ~ a e reduced methylene blue remains colorless if it reached Dr.T.V.V.RAO MD 60, 2016; 9: 215. Article Cas e Google Scholar e Zhou K, Qiao K, Edgar S, Stephanopoulos G, J Bacteriol. The Anaerobes collection is endogenous in nature I. These include sugar fermentation, bile bile Escoulin, starch and hydrolysis of gelatin, casein and gelatin digestion, catalase, lipases, lecarase and indole production, nitrate reduction, volatile fatty acids as determined by gas chromatography and susceptibility to antibiotics. A, Archaea as methanogenic and bacteria, E G Clostridia, Bacterioidi, etc. 16 Dr.T.V.RAO MD 17. P. ANAEROBIC GRAM Negative Bacilli 20 A, a Bactericide, Detotolla, PORFIOMONAS AND FUSOBACTERIUM A, "Present in GJ Tract -form Large component of the normal flora A, A > 80% of human infections associated with b fragilis A, virulence factors - capsule, lps, agglennins and enzymes A, clinical - endogenous infections A A A in intra-abdominal pyogenic infections a a A it is abdominal pleuro - infections Pulmonari A, genital infection Dr.T.V.V.RAO MD 21. Nature. Dynamic metabolic modeling of a co-culture microaerobic yeast: predictable and optimizing the production of ethanol of glucose / xylose mixtures. 2009; 34: 8859 - 65. article e Cottage e Google scholar e Lin P-y, Whang L-M, Wu Y-R, Ren W-J, Hsiao C-J, Li S-L, et al. J INCO Microbiol Biotechnol. Dr.T.V.RAO MD 31 Culture of Anaerobes 32. Interpretation of gram coloring 53 A, Gram coloring is performed on the sample at the time of culture. Executives appropriate for Anaerobich cultures and 34 A, a Microbiologists The understanding of anaerobic bacteriology is fundamental in the interpretation of an anaerobic culture result for diagnosis and treatment of anaerobic infection. Fermenting Bioeng. A skilled plating the vehicle is 67 dr.t.v.rao highly essential figure 6.10a - B 68. 42. Glove anaerobic chamber - closed system - used for premature children - E.G. Incubator III. Human bites dr.t.v.roo MD 23. B. etc. The samples accepted for Anaerobic 36 processing are the following: A, sites A, A Acceptable exemplary A, A CNS A, A CSF, abscess, tissue A, A A, A A Dental / Ent Absession, fabrics dr.t.v.rao md 37. What are anaerobic microorganisms 2 A, anaerobic microorganisms are It is very important A, A do not require oxygen for growth - often extremely toxic dr.t.v.roo MD 3. Endocarditis with (-) blood culture 6. Candle jar - Reduces the environment O2 - only A e a e a e CO2 voltage 2. Many species of the Anaerobes are resistant to penicillin, and some are resistant to clindamycin and other commonly used antibiotics dr.t.v.roo MD 74. 2018; 45: 109 A e a, ~ "20. article e Cas e PubMed e Google scholar e teravest but, ajo-franklin cm. Anaerobes oblit needs 57 optimal methods A, anaerobes obliges can be culture in special reducing supports as sodium ThiglyClolatoe or in Anaerobe rooms managed in Anaerobe caps. Dr.T.V.RAO MD 71. Clinical signs that suggest a possible infection with Anaerobes include the following: A, A 1. For example, there are six kind of kind of baploides that They can be identified as a fragilis baptoides group rather than identified individually. Production of fermentative hydrogen from different CitroBacter sugars sp. Dr.T.V.RAO MD 62. ColiA e a, ~ "E. 2017; 35: 845 - 66. Article e Cas e PubMed e Google Scholar e Paddon CJ, Westfall PJ, Pettler DJ, Benjamin K, Fisher K, McPhee D, et al. Some aspirates / abscesses can contain more than an anaerobe. 2015; 14: 134. article e Cas e PubMed e PubMed Central ... Google scholar e Luli G, Strohl WR. 2017; 44: 99 "105. article e Cas e PubMed e Google scholar e chong m-l, abdul rahman n, yee pl, aziz sa, rahim ra, shirai y, et al. Aerobics select aerobic facultative aerobics growing aerobics or anaerobic. Routes for the Biosynthesis of a bacterial capsulation polysaccharide. The identification of Anaerobes is highly complex and laboratories can use different identification systems. urine 4. e PubMed e Google Scholar e Santala S, Ephemova E, Kivinen V, Larjo A, Aho T, Karp M, et al. Triacylglycerol production In Acinetobacter Baylyi ADP1 by metabolic engineering. Anaerobis Gram-positive 18 A, Actinomycetes (head, head, pelvic infections; Suction polymonia) A, bifid bacterium (ear infections, abdominal infections) A, a Clostridium (gas, gangrene, food poisoning, tetanus, pseudomembrano colitis) a, pseudomembral) a, peptospoentococcus (oral infections, respiratory and intra-abdominal) A, "Propionibacterium (shunt infections) dr.t.v.RAO MD 19. Some commonly used supports include preheated peptone-yeast glucose-glucose broth that is suitable for analyzing volatile products using the Gas chromatography; egg yolk agar for the contemporary activity of Lecithinase of Clostridium spp.; Agar to cycloserine-cefoxitina-fructose (CCFA) for the isolation of Clostridium difficile from stool; and Battratroids bile exculin agar for l'Insulation of the Battratroids Fragilis . The media of the culture Subsbber or include anaerobic blood agar plates with substances such as brain-heart infusion, yeast extract, amino acids and vitamin K; a selective medium like the blood agar of the Kanamycin-Vancomycin (KV) or candy blood agar. And a broth like the infusion broth of the heart of the brain with the thiglycolate or another reducing agent. For example, there are six kind of bactericides who can be identified as the fragilis bumpy group rather than identified individually. Samples from intra-season and genital infections usually produce polymerchrobic cultures of Aerobes and Anaerobes. 2017; 10: 1600A e a, ~ "9. article e Cas e Google scholar e Lehtinen T, Santala V, Santa S. 2017; 11: 58. Article e Cas e PubMed e PubMed Central e Google Scholar e Substrate used and products generated substrate yield A e a, ~ glucose 14.5 a, ~ A e a, ~ 2.1a A e a, ~ A, products A, biomass A e A e A, lipids 9.7c A, A e a, ~ 24.5 A e a, ~ A e 0.8 D. 30f A, A e A, 31g of default glucose (initial glucose "residual glucose"), mmol / l. Gas in tissues A, a 4. 4. Difficult 27 A, associated with human disease in the 1970s, is located in the human git in small numbers A, A with antibiotic use, increase in the number in git A A is clindamycin, ampicillin, cephalosporin. .... 55 methods of anaerobic culture A, the production of a vacuum cleaner A, a A e a, ~ a e Oxygen shift with other gases A, a a, ~ A e oxygen absorption From chemical or biological methods A, a A e a, ~ a e using reducing agents dr.t.v.roo MD 56. Because the aspiration of the preferred needle 47 for anaerobic bacteria II. Gastric content, small intestinal content, faeces, skin fistula and colostomy content should not be cultivated a e 2h2o + O2 A, A Peroxidase: H2O2 + NADH + H + ==> 2H2O + NAD + A, superoxide superoxide: O2- + + + 2h + ==> h2o2 + o2 dr.t.v.v.roo md 10. 56 dr.t.v.roo md bacteroidi fragilis 57. proc natl acad skiing. Sites and infection produced by anaerobes 15 dr.t.v.roo md 16. The data represents the average value From duplicate technical repetitions - A e a, ~ A e a e 1. Standard BBiomass deviation, G / L Lipid content Total in biomass, % DH2 and concentration in mmol / l and mg / l, respectively. Roll Tube - has a pedal A, gas (CO2 and H2) will be released - position the test tube directly to the socket dr.t.v.RAO MD 69. Bacteric characteristic with ITOLLO 11. 2017; 114: 1025 - 35. Article PubMed e Menendez-Bravo S, Roulet J, Sabatini M, Comba S, Dunn R, Gramajo H, et al. Esoclectogenous transformation for biotechnology using synthetic biology. Production of long alkyl esters chain from carbon dioxide and electricity from a two-stage bacterial process. Biotechnol Bioeng. Dr.t.v.roo MD 67. There is a greater possibility of contamination with the normal micro flora dr.t.v.RAO MD 36. l. uterine secretions or material of the sinus section dr.t.v.V.RAO MD 47. 1998; 20: 143 Cas e Google Scholar e TruTM, CheSily B, Hodgson B, Umskul K. 2015; 8: 198. Article e Cas e PubMed Central ... Google Scholar e Taylor WH, Jun E. 1990; 56: 1004 A e a, ~ "11. Cas e PubMed e Pubmed Central ... Google scholar e santala s, karp m, santala v. pH effects, glucose and iron sulfate concentration on the yield of biohydrogen from Clostridium Butyricum EB6. Anaerobes Gram-negable Anaerobes 19 A, "Bactericide (the anaerobes most commonly found in cultures; intra-abdominal infections, rectal abscesses, soft tissue infections, liver infection) A, Fusobacterium (abscesses, injured infections, infections Pulmonari and intracranial) A, a Porfiromonas (suction pneumonia, periodontitis) A, "intra-abdominal infections, abdominal fabric infections) Dr.T.V.RAO MD 20. Anaerobic organisms can often be Because many anaerobes have a characteristic microscopic morphology (appearance) dr.t.v.roo dr.t.v.roo 54. The interpretation of the result of anaerobic culture should be easy if the correct collection and transport of the specimens were insured Dr.T.V.RAO MD MD 50. 2014; 80: 7021 - 7. 7. article e Cas e PubMed e PubMed Central ... Google Scholar e Koskinen Pep, Kaksonen ah, Puhakka JA. Establish very long grease alcohol and ester wax biosynthesis in saccharomyces cerevisiae. Cerevisiae.

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