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Media>MacConkey Agar w/ 0.15% Bile s... Descrição Geral Garantia Formas de Pagamento Avaliações Download O Agar Macconkey Frasco 500g Himedia é usado para isolamento, identificação e enumeração de bactérias entéricas fermentadoras e não fermentadoras de lactose. É recomendado pelo comitê BIS sob as especificações IS: 5887 (Parte I e Parte II) - 1976. O Agar Macconkey Frasco 500g Himedia é recomendado para isolamento, identificação e enumeração de Staphylococcus aureus e Streptococcus fecais. O Agar Macconkey Frasco 500g Himedia é o primeiro meio seletivo e diferencial para o cultivo de microrganismos entéricos a partir de uma variedade de amostras clínicas. Especificações Técnicas do Agar Macconkey Frasco 500g Himedia Aparência: Pó de fluxo livre homogêneo amarelo claro a rosa Gelificação: Firme, comparável com gel de ágar a 1,5%. Cor e clareza do meio preparado: Formas de gel de cor clara a ligeiramente opalescente em placas de Petri Reação de solução aquosa a 5,5% p / v a 25 ° C. pH: 7,5 ± 0,2 pH 7.3 - 7.70 Características culturais observadas após uma incubação a 35-37 °C por 18-24 horas. Ingredientes Gms / Litro Peptona 20.000 Lactose 10.000 Sais biliares 5.000 Cloreto de sódio 5.000 Vermelho neutro 0,070 Agar 15.000 PH final (a 25 ° C) 7,5 ± 0,2 * Fórmula ajustada, padronizada para atender aos parâmetros de desempenho. ARMAZENAMENTO E PRAZO DE VALIDADE: Armazenar entre 10-30°C num recipiente hermeticamente fechado e o meio preparado a 20-30°C. Utilizar antes da data de validade em a etiqueta. Na abertura, o produto deve ser adequadamente armazenado seco, depois de bem tapado o frasco para evitar a formação de grumos devido à natureza higroscópica do produto. O armazenamento inadequado do produto pode levar à formação de grumos. Armazenar em local seco e arejado, protegido de temperaturas extremas e fontes de ignição após o uso. Utilização antes da data de validade no rótulo. O desempenho do produto é melhor se usado dentro do prazo de validade indicado. DESCARTE: O usuário deve garantir o descarte seguro por autoclave e/ou incineração de preparações usadas ou não utilizáveis deste produto. Segue procedimentos laboratoriais estabelecidos na eliminação de materiais infecciosos e materiais que entram em contato com a amostra deve ser descontaminada e descartada de acordo com as técnicas laboratoriais atuais. HiMedia Dehydrated Culture Media HiMedia Labs is one of the worlds leading manufacturers of dehydrated culture media, vegetable peptones and microbiological diagnostic products. HiMedia products are now available in Ireland and EU from Sparks Lab Supplies Showing 1-28 of 28 item(s) ...but your activity and behavior on this site made us think that you are a bot. Note: A number of things could be going on here. If you are attempting to access this site using an anonymous Private/Proxy network, please disable that and try accessing site again. Due to previously detected malicious behavior which originated from the network you're using, please request unblock to site. SKU M008-500G for selective isolation and differentiation of lactose fermenting and lactose non-fermenting enteric bacteria. MacConkey agar (MAC) was the first solid differential media to be formulated which was developed at 20th century by Alfred Theodore MacConkey. MacConkey agar is a selective and differential media used for the isolation and differentiation of non-fastidious gram-negative rods, particularly members of the family Enterobacteriaceae and the genus Pseudomonas.Composition of MacConkey AgarIngredientsAmountPeptone (Pancreatic digest of gelatin) 17 gmProteose peptone (meat and casein) 3 gmLactose monohydrate 10 gmBile salts 1.5 gmSodium chloride 5 gmNeutral red 0.03 gmCrystal Violet 0.001 gAgar 13.5 gmDistilled WaterAdd to make 1 LiterFinal pH 7.1 +/- 0.2 at 25 degrees C.Principle of MacConkey AgarMacConkey agar is used for the isolation of gram-negative enteric bacteria and the differentiation of lactose fermenting from lactose non-fermenting gram-negative bacteria. Pancreatic digest of gelatin and peptones (meat and casein) provide the essential nutrients, vitamins and nitrogenous factors required for growth of microorganisms. Lactose monohydrate is the fermentable source of carbohydrate. The selective action of this medium is attributed to crystal violet and bile salts, which are inhibitory to most species of gram-positive bacteria. Sodium chloride maintains the osmotic balance in the medium. Neutral red is a pH indicator that turns red at a pH below 6.8 and is colorless at any pH greater than 6.8. Agar is the solidifying agent.Uses of MacConkey AgarMacConkey agar is used for the isolation of gram-negative enteric bacteria.It is used in the differentiation of lactose fermenting from lactose non-fermenting gram-negative bacteria.It is used for the isolation of coliforms and intestinal pathogens in water, dairy products and biological specimens.Preparation of MacConkey AgarSuspend 49.53 grams of dehydrated medium in 1000 ml purified/distilled water.Heat to boiling to dissolve the medium completely.Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C.Mix well before pouring into sterile Petri plates.Result Interpretation on MacConkey AgarLactose fermenting strains grow as red or pink and may be surrounded by a zone of acid precipitated bile. The red color is due to production of acid from lactose, absorption of neutral red and a subsequent color change of the dye when the pH of medium falls below 6.8.Lactose non-fermenting strains, such as Shigella and Salmonella are colorless and transparent and typically do not alter appearance of the medium. Yersinia enterocolitica may appear as small, non-lactose fermenting colonies after incubation at room temperature.Colony Morphology on MacConkey AgarOrganismColorRemarksEscherichia colired/pinknon-mucoidAerobacter aerogenespinkmucoidEnterococcus speciesredminute, roundStaphylococcus speciespale pinkopaquePseudomonas aeruginosagreen-brownfluorescent growthLimitations of MacConkey AgarThe colonial characteristics described give presumptive identification only of the isolated organisms. It is necessary to subculture and carry out confirmation tests for final identification.Some strains may be encountered that grow poorly or fail to grow on this medium.Incubation of MacConkey Agar plates under increased CO2 has been reported to reduce growth and recovery of a number of strains of Gram-negative bacilli.Some strains of Proteus may swarm on this medium.ReferencesAustin Community College, 5930 Middle Fiskville Rd., Austin, TexasASM Microbe Library: MacConkey Agar Plates ProtocolsThermo Fisher Scientific Inc., Dehydrated Culture Media: MacConkey AgarAcumedia Manufacturers: MacConkey AgarHiMedia Laboratories Pvt. Ltd, Technical data: MacConkey AgarHardy Diagnostics: MacConkey AgarScience Prof Online (SPO): MacConkey AgarBacteriological Analytical Manual, 8th Edition, Revision A, 1998.Collin County Community College District.Microbe OnlineWikipediaSimilar Posts:List of culture media used in microbiology with their usesSalmonella Shigella (SS) Agar- Composition, Principle, Uses, Preparation and Result InterpretationKligler's Iron Agar Test – Procedure, Uses and InterpretationXylose Lysine Deoxycholate (XLD) Agar- Principle, Uses, Composition, Preparation and Colony Characteristics

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