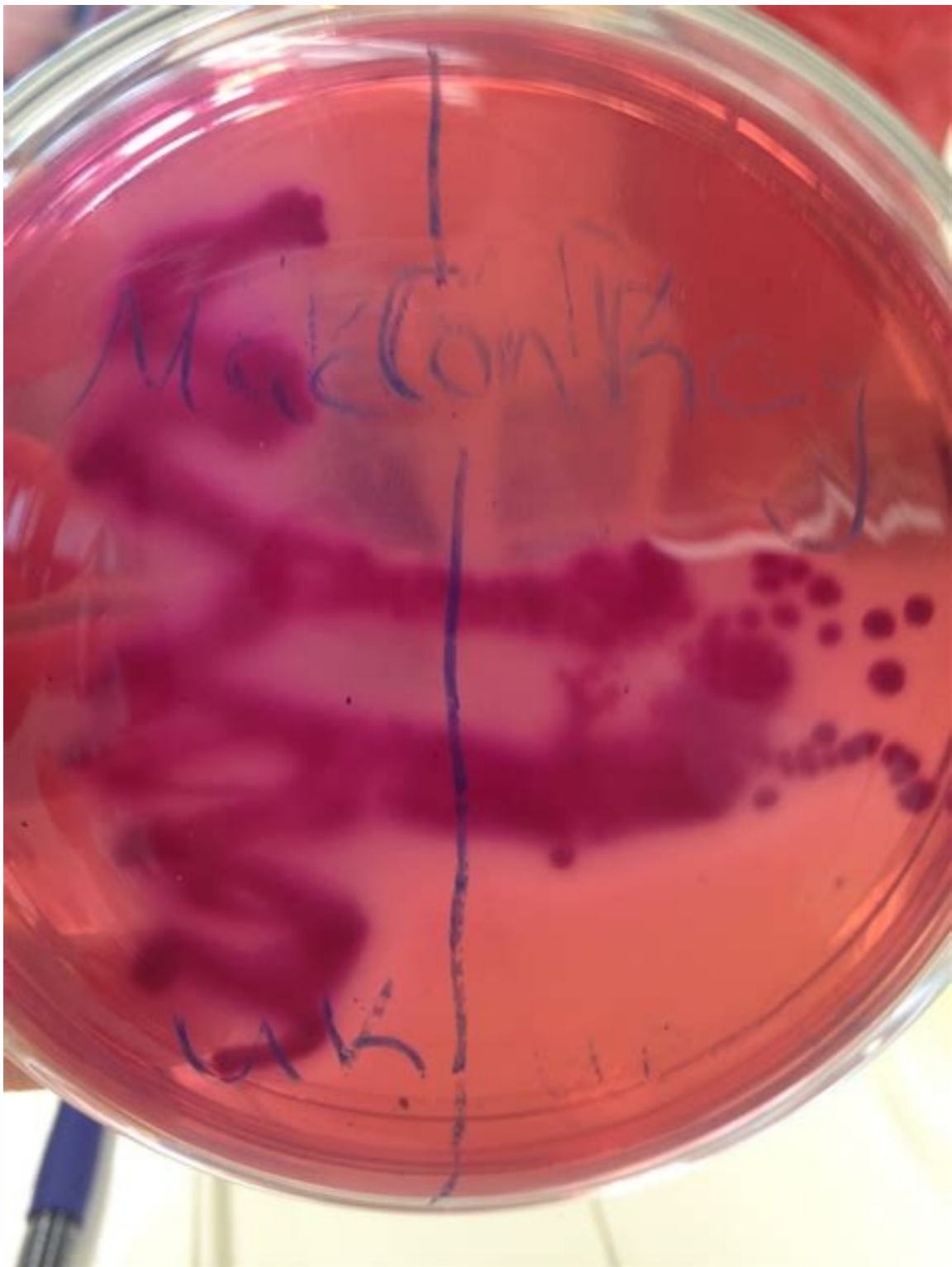
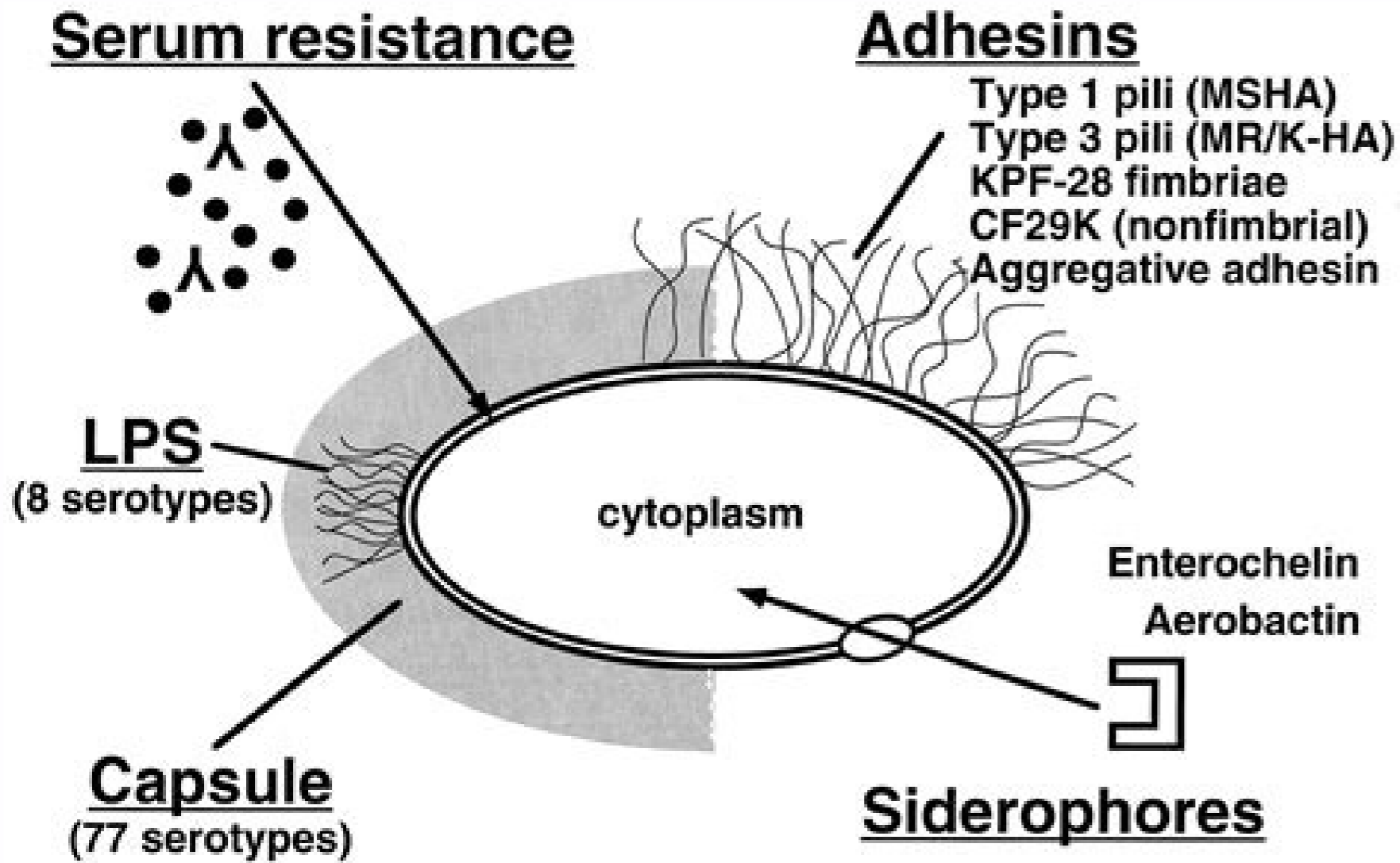


Lactose fermenting coliform in urine

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MacConkey Agar



In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. Full PDF PackageDownload Full PDF PackageThis PaperA short summary of this paper37 Full PDFs related to this paperDownloadPDF Pack Salmonella Shigella (SS) Agar is moderately selective and differential medium for the isolation, cultivation and differentiation of Salmonella spp. and some strains of Shigella spp. SS Agar is a modification of the Desoxycholate Citrate Agar. It is recommended for the primary isolation of Shigella. It was also developed to aid in the differentiation of lactose and non-lactose-fermenters from clinical specimens, suspected foods, and other such samples. Preparation of Salmonella Shigella AgarIngredientsGms / LitreBeef Extract5.00Enzymatic Digest of Casein2.50Enzymatic Digest of Animal Tissue2.50Lactose10.00Bile Salts8.50Sodium Citrate8.50Sodium Thiosulfate8.50Ferric Citrate1.00Brilliant Green0.00033Neutral Red0.025Agar13.50Distilled Water = 1000 mlpH (at 25°C) 7.0 ± 0.2Principle of Salmonella Shigella AgarThe inclusion of Bile Salts, Sodium Citrate and Brilliant Green serve to inhibit gram-positive, coliform organisms and inhibit swarming Proteus spp., while allowing Salmonella spp. to grow. Beef Extract, Enzymatic Digest of Casein, and Enzymatic Digest of Animal Tissue provide sources of nitrogen, carbon, and vitamins required for organism growth. Lactose is the carbohydrate present in Salmonella Shigella Agar. Thiosulfate and Ferric Citrate permit detection of hydrogen sulfide by the production of colonies with black centers. Neutral red turns red in the presence of an acidic pH, thus showing fermentation has occurred.Uses of Salmonella Shigella AgarIt is used as a selective and differential medium for the isolation of Salmonella and some Shigella species from clinical and non-clinical specimens.This medium is not recommended for the primary isolation of Shigella.It was also developed to aid in the differentiation of lactose and non-lactose-fermenters from clinical specimens, suspected foods, and other such samples.Preparation of Salmonella Shigella AgarSuspend 60.0 grams of Salmonella Shigella Agar in 1000 ml distilled water.Heat to boiling to dissolve the medium completely.Do not autoclave.Mix well and pour into sterile Petri plates.Result Interpretation on Salmonella Shigella AgarSalmonella will not ferment lactose, but produce hydrogen sulfide (H2S) gas. The resulting bacterial colonies will appear colorless with black centers.Shigella do not ferment lactose or produce hydrogen sulfide gas, so the resulting colonies will be colorless.Coliform bacteria such as E. coli will ferment the lactose in the media, resulting in bacterial growth with a pink color. They do not produce any hydrogen sulfide.Enterobacter and Klebsiella appears larger than E. coli, mucoid, pale, opaque cream to pink.Quality Control on Salmonella Shigella AgarPositiveSalmonella enteritidis ATCC 13076= Colorless colonies with black centerSalmonella typhi ATCC 6539 = Colorless colonies with black centerSalmonella typhimurium ATCC 14028= Colorless colonies with black centerShigella flexneri ATCC 12022 = Colorless coloniesNegativeEnterococcus faecalis ATCC 19433 = InhibitedEscherichia coli ATCC 25922 = InhibitedEnterobacter aerogenes ATCC 13048 = partially inhibited. Cream-pinkLimitations of Salmonella Shigella AgarIt is recommended that biochemical, immunological, molecular, or mass spectrometry testing be performed on colonies from pure culture for complete identification.The incorporation of brilliant green into this medium makes it highly selective, and has been shown to inhibit the growth of some ShigellaThe bile salts may crystallize over time. They appear as small spider-like puff balls within the medium and do not affect the performance of the medium.Some strains of Shigella, such as sonneiland S. dysenteriae serovar 1, may ferment lactose relatively slowly, and colonies change to lactose-fermenting after cultivation for 2 or more days.A few non-pathogenic organisms may grow on Salmonella ShigellaReferencesSS Agar. Hardy Diagnostics.Salmonella-Shigella Collin County Community College District.Salmonella Shigella Agar (SS Agar). Oxoid Limited. Thermo Fisher Scientific Inc.SS Agar - Salmonella Shigella Agar (Medium). Microbiology Made Easy.Salmonella-Shigella Agar Culture Media. My Bio Source.SS agar. BioMerieux.Salmonella Shigella Remel.Salmonella Shigella Agar. Becton, Dickinson and Company.Salmonella Shigella Agar (7152). Acumedia Manufacturers, Inc.Salmonella Shigella Agar (SS Agar). Laboratorios Conda, S.A.SS Agar (Salmonella Shigella Agar) Plate. HiMedia Laboratories Pvt. Ltd.85640 SS-Agar (Salmonella Shigella Agar). Sigma-Aldrich, Inc.Similar Posts:Simmons Citrate 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 CharacteristicsThe Triple Sugar Iron (TSI) Test - Principle, Procedure, Uses and InterpretationTo make colony counts of Proteus in food and subsequently to identify them, the food is emulsified and then diluted in a suitable sterile isotonic diluent and then is plated out on culture media with a dry surface that do not permit swarming growth.From: Encyclopedia of Food Microbiology (Second Edition), 2014 1. Chang, G. W., J. Brill, and R. Lum. 1989. Proportion of β-d-glucuronidase-negative Escherichia coli in human fecal samples. Appl. Environ. Microbiol. 56:335-339. [PMC free article] [PubMed] [Google Scholar]2. Covert, T. C., L. C. Shadix, E. W. Rice, J. R. Haines, and R. W. Freyberg. 1989. 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