



organism is injected into a starch plate and incubated at 30 ° C until growth is seen (i.e. up to 48 hours). Petri sheets are then flooded with iodine solution. Depending on the concentration of iodine used, iodine turns blue, purple or black when starch is available. When bacteria are capable of producing α-amylase and oligo-1,6-glucosidase grown on starch jelly, they secrete these enzymes into the surrounding areas. Clearing around the growth of bacteria indicates that the organism has hydrolysis starch. Test goal: To determine whether the organism has the ability to break down starch into maltose through the activity of the enzyme α-amylase in addition to cells. Uses: Experimental hydrolysis starch is used to distinguish members of different genus including Bacillus, Clostridium, Corynebacterium, Fusobacterium, Enterococcus, Pseudomonas, and Streptococcus. These genus have both amylase-positive and amylase-negative species. Check process Select a few colonies experimental organisms using cotton swabs or sterile loops. Streak a starch plate in the form of a line over the width of Some cultures can be tested on a single jelly board, each represented by a straight line or sheet that can be divided into four-quarter for this purpose. Incubate the plate at 37 °C for 48 hours. Add 2-3 drops of iodine solution 10% directly to the edge of the colonies. Wait 10-15 minutes and record the result. Starch hydrolysing test (Photo source: ASM) Explanation: Positive test (+): Characteristic purple-black color will appear in the environment. However, a clear halo will appear around the colonies of amylase active species. Negative test (-): Characteristic purple-black color will appear in medium form, right up to the edge of isolated colonies of negative amylase species. Results of hydrolysing starch test results of selected organisms. Hydrolysing starch (+ticks) Hydrolysing starch (-tick) Bacillus subtilis Streptococcus agalactiae Bacillus cereus Staphylococcus epidermidis Bacillus megaterium Escherichia coli Reference and read more Archana Lal, Naowarat Cheeptham. 2012. Starch jelly protocol. Madigan MT, Martinko JM, Stahl DA, Clark DP. 2012. Brock Biobiology, 13th ed. Benjamin Cummings, San Francisco, CA. Related starch is a complex polysaccharide found abundantly in plants and often deposited in large granular forms in cytocar cells of cytocarbons. Starch consists of D-glucose units that are linked in a linear way α-1.4 bind. It has 2 heads that do not fall and a reduced end. Amylopectin is a branching polysaccharide. In these molecules, the shorter glucose unit chains linked by α-1.4 are also connected by α-1.4 are also connected by α-1.6 binds. The main component of starch can be hydrolysis by a-amylase, which is present in some bacteria while well-known in the case of fungi. The ability to decompose starch is used as a criterion to determine the production of amylase by bacteria. To determine the ability of a starch hydrolysis organism based on their amylase α enzyme activity, the bacteria produce out-of-cell enzymes used to catalyst chemical reactions outside the cell. In this way, nutritional sources, such as starch, are too large to be absorbed through diffusion. In the starch hydrolysis test, the test bacteria are grown on jelly sheets containing starch. If bacteria are capable of hydrolysis starch, it does so in the environment, especially in the areas around their growth while the rest of the area of the plate after incubation. While non-hydrolysing starches dark blue with iodine, its hydrolyponic end products do not get dark blue with iodine. Therefore, transparent regions are formed around the hydrolycesed starch colonies while the rest of the plate shows a dark blue color when iodine forms a color complex with starch. Media: Starch agar is a simple means of nutrition with added starch. Beef extract and pancreatic digestion of gelatin provide nitrogen, vitamins, carbon ydrates. Ingredients: Peptic digestion of animal tissue 5,000, Sodium chloride 5,000, Yeast extract 1,500, Beef extract 1,500 Starch, dissolved 2,000 Agar 15,000 PH finally (at 25 °C) 7.4±0.2Us a sterile technique, perform vaccination of bacterial vaccination plates for 48 hours at 37 °C. After incubation, flood the surface of the plates with an iodine solution with a drop for 30 seconds. Pour excess iodine. Check the area clearly around the bacterial growth line after the addition of iodine solution indicates that the organism has hydrolymed starch. Negative test: Blue, purple or black of the environment (depending on iodine concentration). UsesIt aids in the differences of the genus Corynebacterium, and members of Enterococcus spp. LimitationsIt is recommended that biosynthesis, immunotherapy, molecular or mass spectral tests be performed on colonies from pure culture for adequate identification. Colonies cannot be re-cultivated from the environment after gram iodine supplementation due to the oxidizing properties of reastant and as a result dead cells. Reference tille P.M. 2014. Microbiology diagnosed by Bailey and Scott. Version 13. Mosby, Inc., a subsidiary of Elsevier Inc. 3251 Riverport Lane. St. Louis. Missouri 63043 //www.himedialabs.com/TD/M107.pdf //catalog.hardydiagnostics.com/cp prod/Content/hugo/StarchAgar.html //www.sas.upenn.edu/LabManuals/biol275/Table of Contents files/21-DiagnosticTests.pdf //biocyclopedia.com/index/biotechnology methods/microbiology/starch hydrolysis test ii method.php

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