

For use the following materials are added to each 100 c.c. of the melted agar as prepared above: 1 gram or 5 c.c. of the sterile 20 per cent. lactose solution, 2 c.c. of 2 per cent. aqueous yellowish eosine, and 2 c.c. of 0.5 per cent. aqueous methylene blue. The aqueous solutions of the dyes will keep in the ice box several months.

Differentiation of B. Coli and B. Aerogenes

On the eosine methylene blue agar as prepared above, B. coli forms characteristic button-like colonies 2 to 4 mm. in diameter with large black centres. There is also a greenish metallic lustre and they are only slightly raised above the surface of the medium. B. aerogenes forms colonies which are much larger, considerably raised above the surface of the medium: characteristically show a relatively small brown centre and the metallic lustre is rarely observed.

Of 122 colonies tentatively diagnosed as B. coli from their appearance on the agar, 97 per cent. were B. coli, while of 102 colonies of supposed B. aerogenes, 83 per cent. were confirmed. The differentiation on this medium therefore seems reasonably reliable.

Conclusions

In the lactose broth presumptive test, 1 per cent. lactose is detrimental to the successful isolation of B. coli, as many strains die off rapidly after twenty-four hours. A reduction of the lactose to 0.5 per cent. reduces this error and is therefore recommended for routine tests.

For a rapid confirmatory test, the modified eosine methylene blue agar, because of its simplicity, ease of preparation, and the differentiation which it permits between B. coli and B. aerogenes, may advantageously be substituted for litmus lactose agar or the Endo medium, in routine water analysis.

The necessity for confirming the presumptive test and differentiating between the objectionable B. coli and the more widely distributed B. aerogenes and anaerobic gas-formers is not only of theoretical interest but of considerable practical significance when dealing with surface waters which are purified by sedimentation or chlorination. Where the positive presumptive test is due to spore formers, the amount of chlorine necessary to remove them is far in excess of that required to make the water safe. B. aerogenes also seems to be more resistant to treatment than B. coli. A knowledge of the type of bacteria responsible for a positive presumptive test thus becomes of practical significance.

J. E. Ray, Canadian trade commissioner, Manchester, England, reports that the British Government is considering a scheme to erect at least 300,000 houses under state and municipal rate aid. This prospective demand for building materials, etc., should be closely followed by Canadians, as this country will probably be the largest source of structural supplies.

The Continental Pipe Manufacturing Co., organized under the laws of the State of Washington, has purchased the plants of the following concerns: The Pacific Coast Pipe Co., Seattle, Wash.; the Washington Pipe Foundry Co., Tacoma, Wash.; the National Tank Pipe Co. (pipe department only), Portland, Ore., and the Portland Wood Pipe Co., Portland, Oregon.

The new building of the Sun Life of Canada in Montreal has been almost completed. It occupies a corner overlooking Dominion Square, and is seven stories high, but is so constructed that ten more stories could be added. The exterior is of grey granite on a frame of structural steel. A fireproof vault, built on separate foundations, runs upward through all floors. The building includes a dining-room and lounge-rooms.

NEW INCORPORATIONS

- Unity, Sask.**—Standard Machinists, Ltd., \$20,000.
- Mazenod, Sask.**—Mazenod Farmers Elevator Co., Ltd., \$15,000.
- Hamilton, Ont.**—Monarch Metal Co., Ltd., \$250,000; G. A. Young, A. B. Turner, A. H. Johnson.
- Woodstock, Ont.**—Fig-Lax Laboratories, Ltd., \$50,000; L. Goodyear, B. Goodyear, W. Goodyear.
- Winnipeg, Man.**—Gray Tractor Co. of Canada, Ltd., \$1,000,000; J. W. Gray, A. Prugh, E. R. Chapman.
- Midland, Ont.**—Midland Iron and Steel Co., Ltd., \$1,000,000; D. S. Pratt, D. L. White, J. W. Benson.
- Hamilton, Ont.**—Dominion Sheet Metal Corporation, Ltd., \$500,000. J. R. Marshall, H. A. Burbidge, A. B. Turner.
- Windsor, Ont.**—Saxon Motors Corporation of Canada, Limited, \$50,000. Alexander Robert Bartlet, Harvey Leroy Barnes.
- Brantford, Ont.**—Canada Plaster Board Co., Ltd., \$100,000. Frederick Chalcraft, William Edward Long, Robert Edwin Haire.
- Welland, Ont.**—Dillon Crucible Alloys, Limited, \$100,000. Lynn Bristol Spencer, Lorenzo Clarke Raymond, Charles Henderson.
- Vancouver, B.C.**—North Wellington Collieries, Ltd., \$25,000; Point Hydraulic Mining Co., Ltd., \$25,000; Delia Mines, Ltd., \$25,000.
- East Broughton, Que.**—Dominion Asbestos Spinning Co., Ltd., \$149,000. Aurel Pare, James Edward Murphy, Arthur Morisset.
- Calgary, Alta.**—Branham Dredging Co., Ltd., \$500,000. William Wilfred Wadleigh, Alexander Cameron Galbraith, Charles Saunders.
- Saint-Amedee-de Peribonka, Que.**—Quebec-Saguenay Pulp & Paper Company, Limited, \$799,999. M. M. Joseph-Philias Galibois, Hector Godbout.
- Vancouver, B.C.**—Frank Waterhouse & Company of Canada, Limited, \$50,000. Frank Waterhouse, Neal Harold Begley, John Richard Lane.
- Vancouver, B.C.**—Vickers Contracting Co., Ltd., \$10,000. Burnaby Oil Wells, Ltd., \$65,000. Barons Motors, Ltd., \$15,000. Quadra Steamship Co., Ltd., \$100,000.
- Montreal, Que.**—Fairfax Forgings, Limited, \$1,500,000. Louis Athanase David, Louis Phillippe Crepeau; L. H. Cantin & Compagnie, Limitée, \$10,000. Frank Pauze, J. Arthur Beaudoin.
- Vancouver, B.C.**—Beaver Cove Lumber and Pulp Co., Ltd., \$1,000,000. Point Hydraulic Mining Co., Ltd., \$25,000; North Wellington Collieries, Limited, \$25,000; Spartan Oil Co., Ltd., \$250,000.
- Toronto, Ont.**—King Construction Co., Ltd., \$100,000. John Alexander Hart, John William Gooch, Edwin George Long; Kirkland-Munroe Gold Mines, Ltd., \$2,000,000. Alexander Gordon, Sydney Charles Parker, Daniel Sheriff.
- Toronto, Ont.**—Paving and Mastic Co., Ltd., \$40,000; R. E. Grass, R. Lierberman. Wilberforce Molybdenite, Ltd., \$250,000; L. Adams, V. M. Gray, B. M. Gray. Superior Mines, Ltd., \$500,000; J. H. Spence, G. Cooper, L. M. Heal.
- Toronto, Ont.**—Sunbeam Chemical Company of Canada, Limited. George Harold Gilday, Martha Pearl Procter, Loretta Flynn. Petroleum and Gas Products, Limited, \$1,000,000. George Joseph Valin, Fred. Woods, Fred. Wilson Rogers.
- Winnipeg, Man.**—Northern Implement Company, Limited, \$25,000. William John Leaney, Frank Nilan, Norman Wesley Stowell; Flaxlinum Sales Company, Limited, \$25,000. James Douglas Armstrong, Albert Preston Hendrickson, Frank Evans.
- Quebec, Que.**—Corporation d'Energie de Montmagny, \$400,000. Ernest Roy, Hew R. Wood, Maurice Rousseau; Steamer Muriel W., Limited, \$10,000. Wm. Quarrier Stobo, Herbert Cecil Thorn, Cyril St. John Griffis; Canadian Ferro Alloys, Limited, \$250,000. Lawrence Macfarlane, Gordon Walters MacDougall, William-Bridges Scott.
- Montreal, Que.**—Halifax Shipyards, Ltd., \$6,000,000; C. Pringle, N. G. Guthrie, R. Blake. Clyde Engineering Co., Ltd., \$100,000; F. T. Peacock, H. Kennedy, J. Bryson. Motor Services, Ltd., \$250,000; R. T. Heneker, H. N. Chauvin, H. Wylie. Electric Welding and Shipbuilding Co. of Canada, Ltd., \$50,000; J. J. Meagher, H. N. Chauvin, J. E. Coulin. Troja Steamship Co., Ltd., \$1,000,000; E. F. Surveyor, W. L. Bond.