Litmus Milk :-

- 24 hours. No change.
- 48 hours. No change in colour or consistency; on shaking numerous small gas bubbles appear and form a foam on surface.
- 6 days. Coagulated, moderately firm curd, liliacinus in colour. About a quarter of the tube is whey, and much darker in colour (atro-violaceus).
- 3 weeks. There is a reddish ring at the surface, considerable digestion, whey occupying three-quarters of the tube, isabellinus in colour. Curd flocculent, avellaneus; odour slightly cheesy.

Potato:-

- 24 hours. Growth moderate, filiform, slightly raised, eream-yellow colour. This increases, and in
- 6 days growth is moderate, raised, rugose, moist, shiny; dirty cream-yellow, darker in centre where growth is most massive.
- 3 weeks. No further change.

A. 3.

Medium-size bacillus with rounded ends, resembles A. 1 in appearance. Active motile, stains well with methylene blue, and is gram negative.

Gelatine Plates :-

- 24 hours. Just visible to the naked eye. Growth rapid.
- 48 hours. Colonies are 2-5 mm. in diameter, round. Liquefaction saucer-shaped, inner ring dense, caused by deposited bacilli. With \$ objective the edges of the colonies are fimbriate centre grumose and flocculent. Masses of the bacteria can be seen in movement.
- 3 days. Colonies increase to 12 mm. in diameter, sewer-shaped liquefaction, whitish in centre, more transparent at the margin. To the naked eye the edges are entire, but with a microscope slightly fimbriate. There is a cheesy smell on opening the plates.
- 4 days. Plates are liquefied.

Gelatine Stick :-

- 24 hours. Resembles A. 1, but slightly less growth.
- 48 hours. Line of bacteria is filiform, smooth on surface. Liquefaction stratiform, 4 mm. deep. Liquefaction continues.
- 10 days. Liquefaction is 1 cm. deep with medium beneath darker in colour, but

Agar Plates :-

- 48 hours. Colonies are 1-3 mm. in diameter, round, raised, yellowish-white. With 3 objective edges are entire, dark in centre, granular, gradually becoming lighter to margin, which is clear.
- 3 days. Colonies are round, white, edges entire, brownish in centre. Convex.
- 4 days. No change.

Agar Slope, 37°C .:-

- 24 hours. Very slight growth, filiform.
- 7 days. No further change.

Glucose Agar Slope, 20° .-

A spreading, flat, white, shiny growth; agar beneath very cloudy. Cream yellow. No gas.