Appendices

1. Nutrient agar

The medium was prepared by dissolving 28 grams of the medium in one liter of distilled water. It was sterilized by autoclave at 121˚ C for 15 minutes, allowed to cool to 55˚ C and then poured into petri dishes.

2. Manitol- egg yolk- polymyxine agar

The medium was prepared by dissolving 43 grams of the medium in 900 ml of distilled water. The PH was adjusted and sterilized at 121˚ C for 15 minutes and was let cool to 45˚-50˚ C. A 100 ml of egg yolk and 10 grams of polymyxine B were added to the autoclaved solution.

Preparation of polymyxine phosphate solution

50 grams of polymyxine B were dissolved in 50 ml of distilled water. It was sterilized by membrane filter.

3. Starch agar

10 grams potato starch was mixed with 50 ml distilled water and was added to 1000 ml melted nutrient agar. Sterilized at 115˚ C for 10 min, allowed to cool to 50˚ C and pour into petri dishes (Barrow and Felthman, 1993).

4. Ammonium Salt Sugar (ASS)

Was prepared according to Barrow and Felthman, (1993) as follow:

$(NH_4)_2HPO_4$ Diammonium phosphate 1g, KCL 0.2g Mg So_4. 7 H_2O 0.2 g ,Yeast extract 0.2 g , Agar Oxoid 20 g, Distilled water 1000 ml and bromocresol purple 4 ml. The solid were added to the water and dissolved by steaming, the

indicator was and sterilized at 115 ° C for 15 minutes. Then media was cooled to 60 ° C and the carbohydrate was added as sterile solution.

4. Manitol salt agar:

The medium was prepared by dissolving 11.0 g in 100 ml distilled water. The pH was adjusted to 7.3 and sterilized at 121° C for 15 minutes. Then the medium has cooled to 50°-55 ° C and dispensed in petri dishes.

5. DNase media:

The medium was prepared by dissolving 3.9 g in 100 ml distilled water , The pH was adjusted to 7.3 and sterilized at 121° C. when medium was cooled to 50-55 C was dispensed in petri dishes.

6. Indole medium:

Peptone water phosphate buffered (Scharleu). The medium was prepared by dissolving 20 grams of the medium in one liter of Distilled water. The pH was adjusted to 7.4 and distributed into test tubes.

7. Kosser citrate:

The medium was prepared by dissolving 24.28 grams of the medium in one liter of distilled water. Heated to boiling to dissolve the medium completely, dispensed as 4 ml in each test tube. Sterilized at 121º C for 15 minutes allowed cooling to 55º C.

8. Urea medium:

Urea agar base was prepared by dissolving 24 grams of the medium in 950 ml of distilled water. Sterilized by an autoclave ate 121ºC for 15 minutes, when the medium has been cooled to 50 º – 55º C, add aseptically the sterile urea solution and mix well.

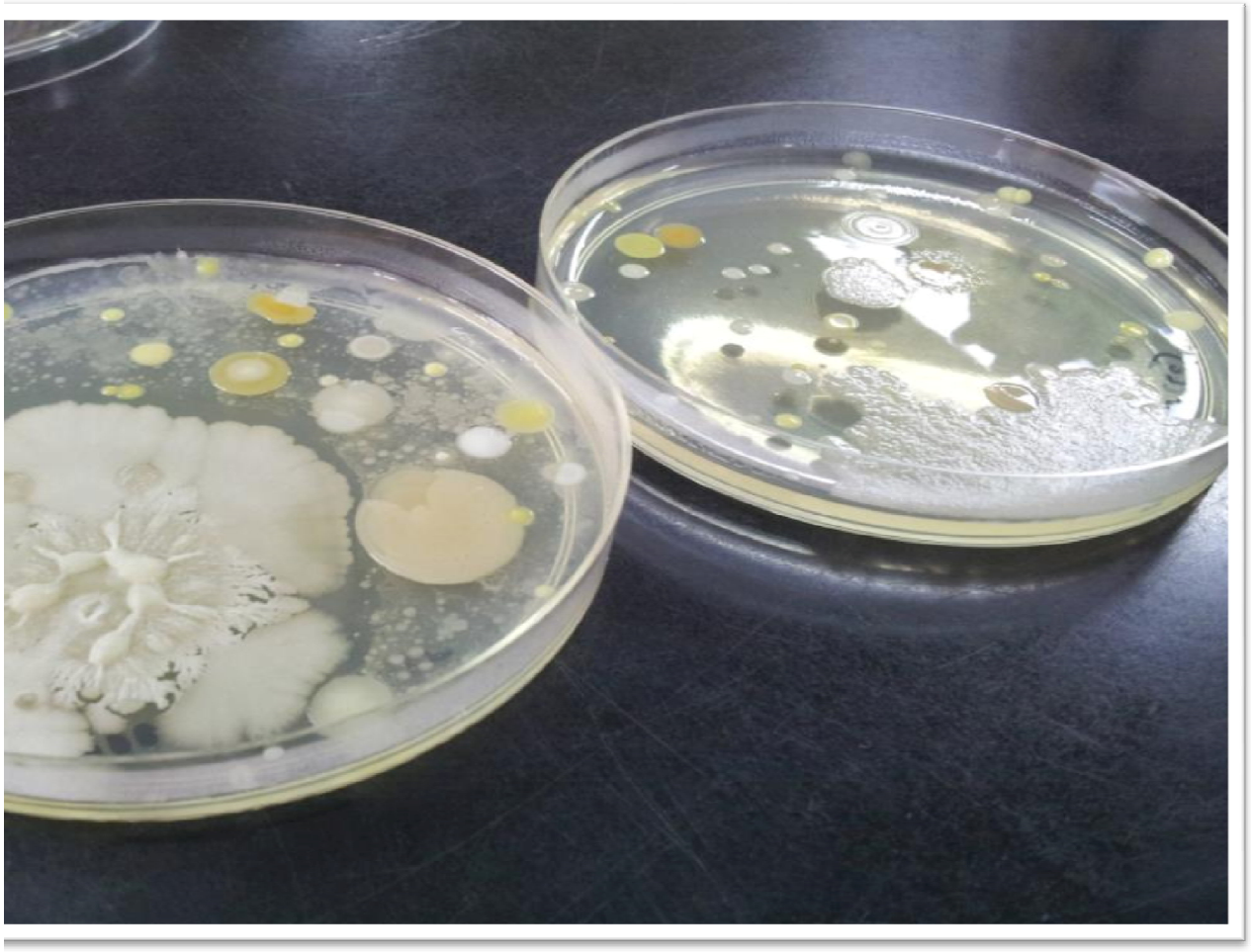
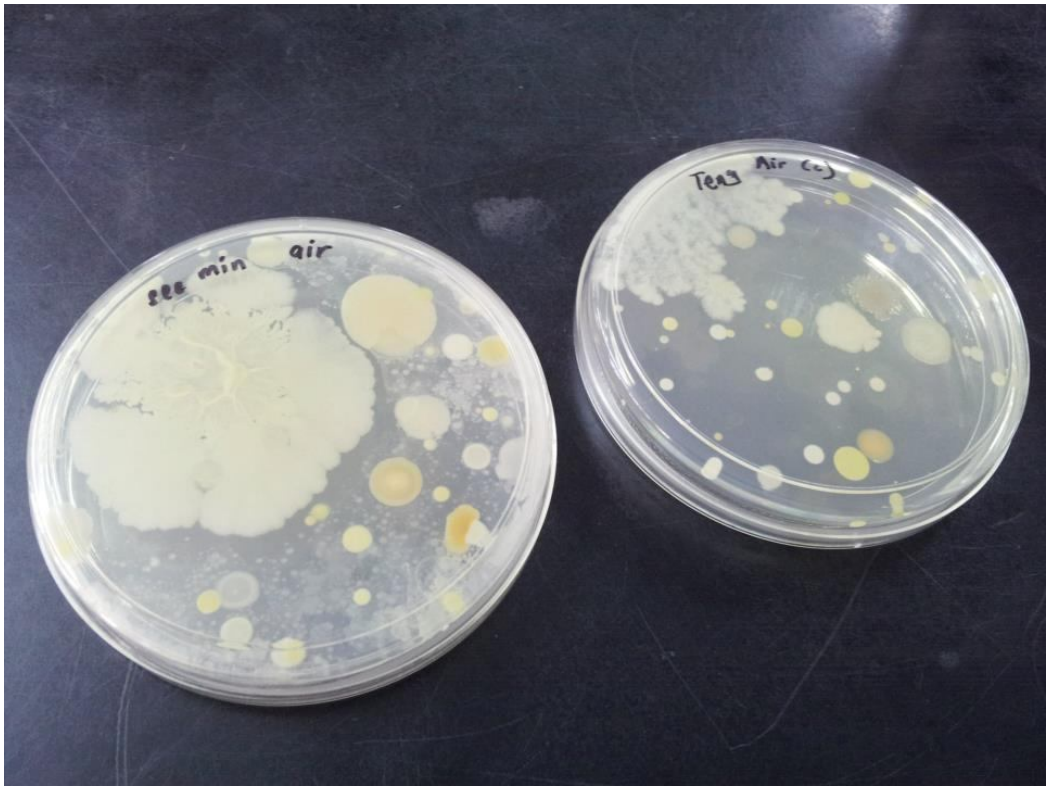
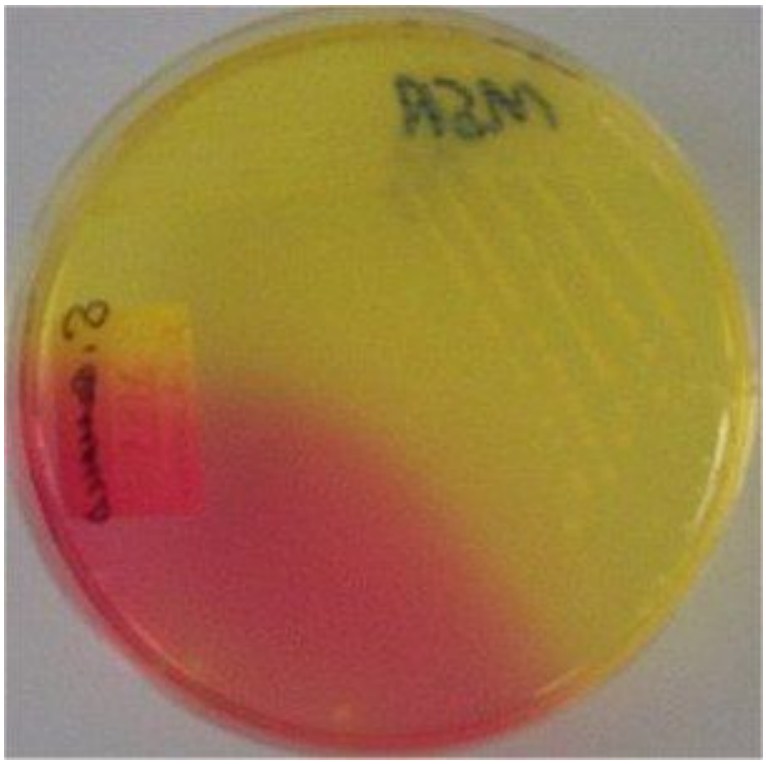


Figure No 1. Growth in nutrient agar at 35 ^{o} C for 16-24 h.

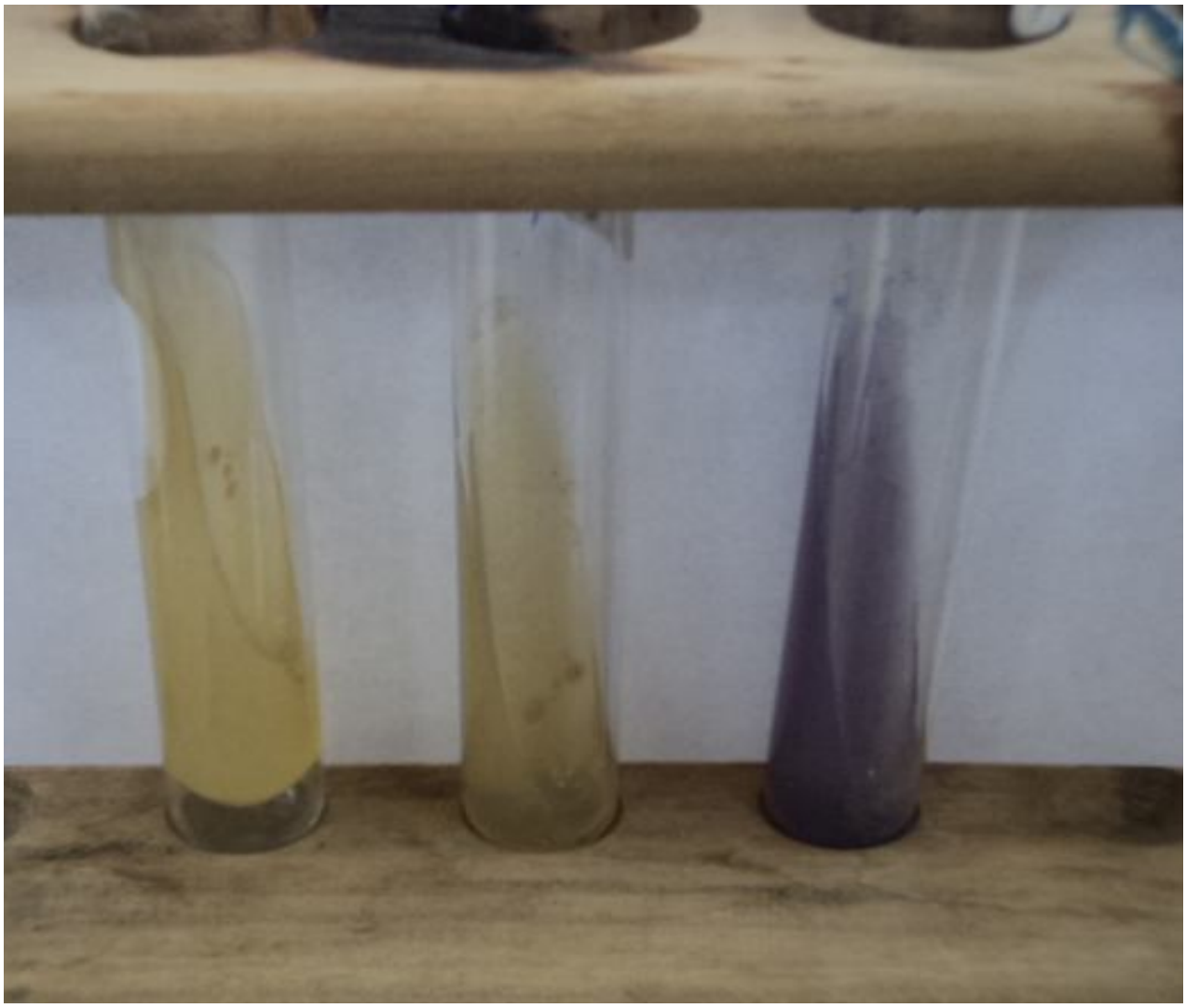


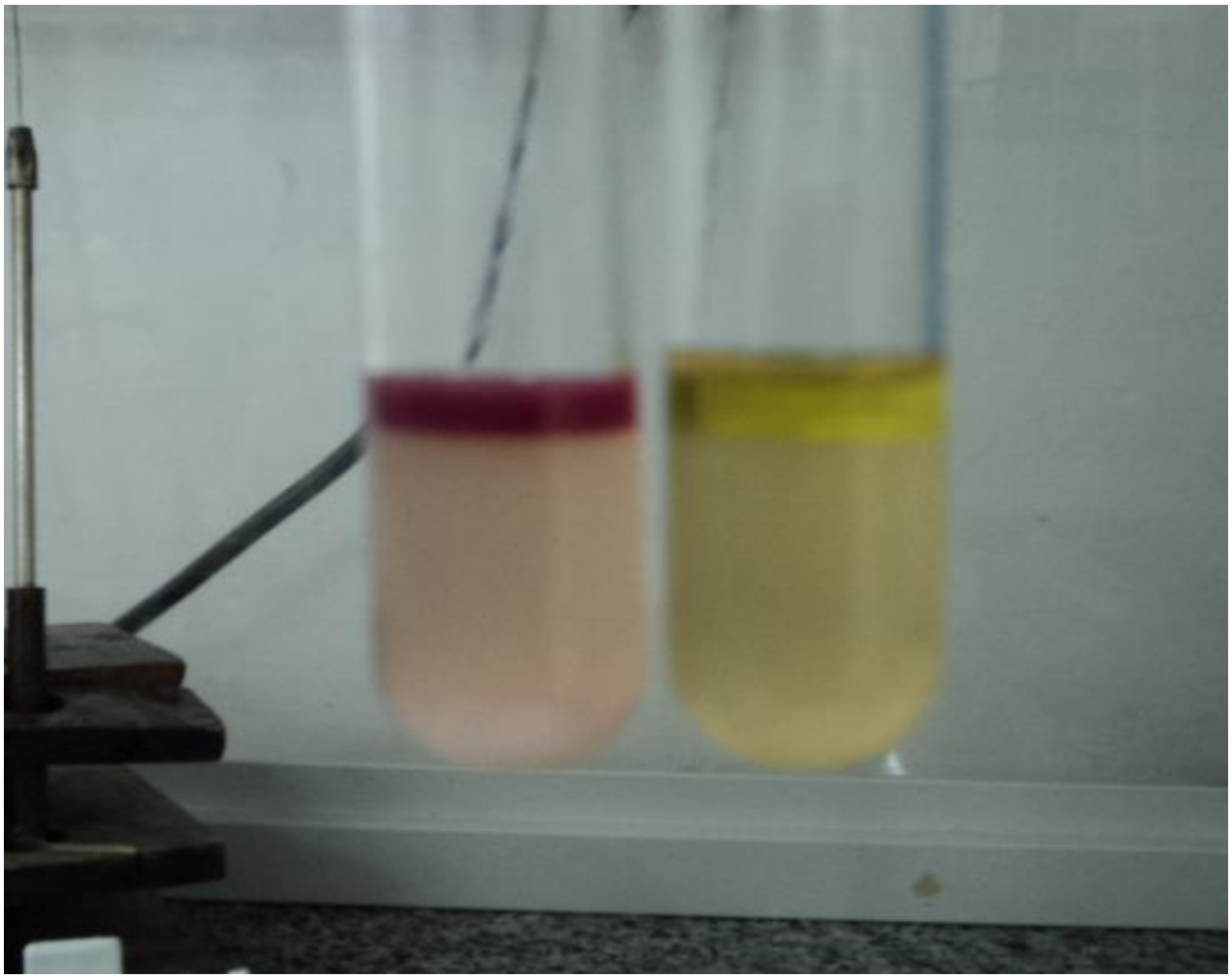
Growth on nutrient agar

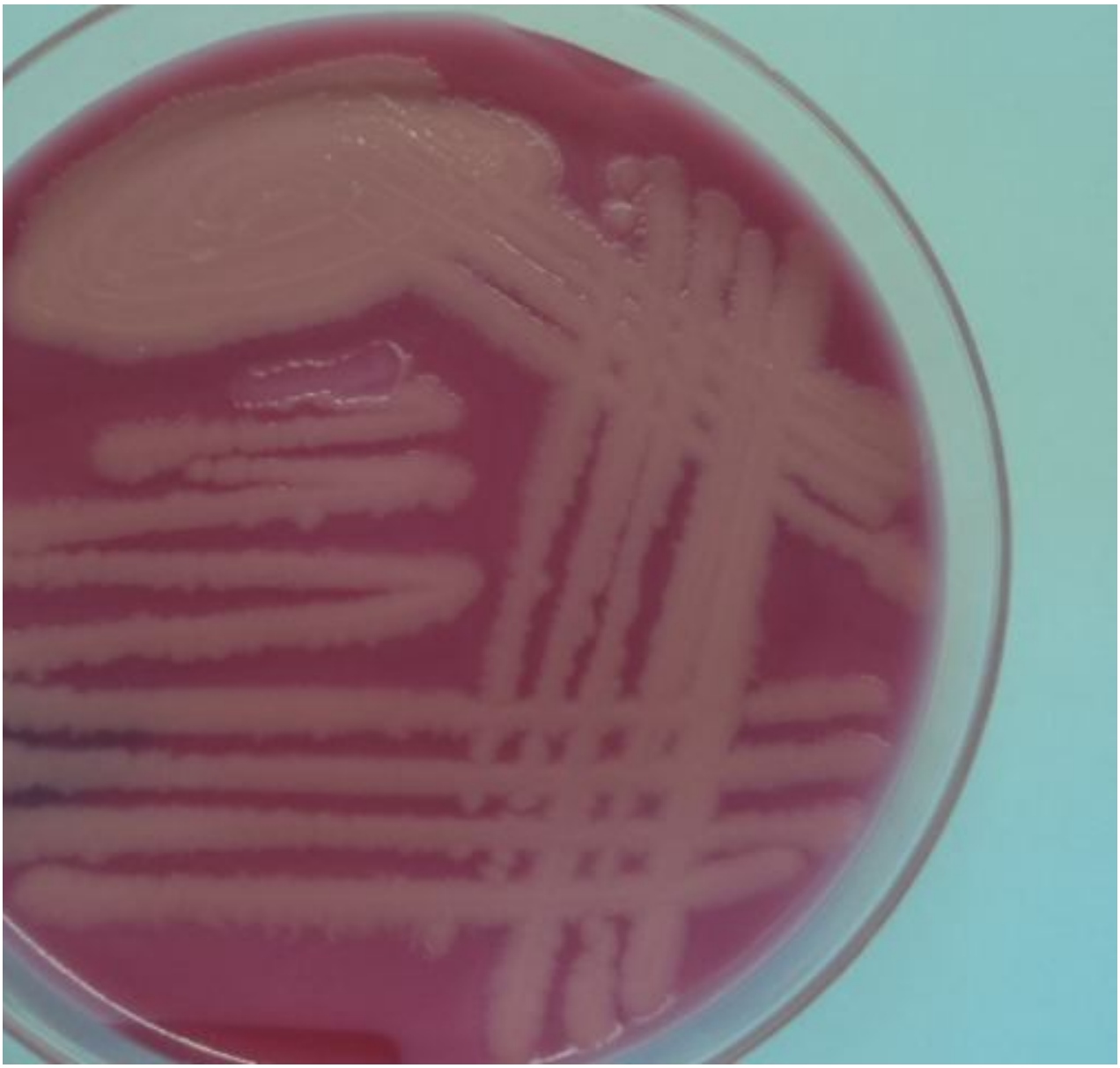
Colony Counter

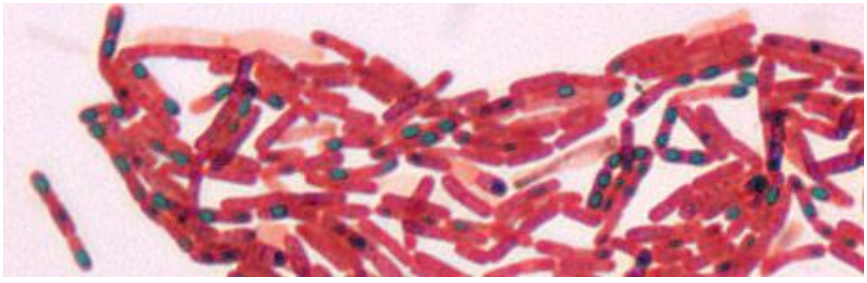


Manitol Salt Agar (MSA) culture. Yellow, manitol fermenting *staphylococcus aureus*









Spore stain