**APPENDIX**

**SOLID MEDIA**

NUTRIENT AGAR

This is a general purpose medium used for the cultivation of microorganisms. The medium composition is as follows;

Yeast extract 0.2g

Peptone (oxoid) 0.5g

Agar No.3 1.5g

Sodium chloride 0.5g

Distilled water 1L

About 10g of the medium was weighed and dissolved in 200mls of distilled water, homogenized with the aid of water bath machine and sterilized by autoclaving it at 121°C for 15minutes. The sterile medium was allowed to cool to about 45°C and aseptically poured into petri dishes and allowed to set on a flat surface.

Mac CONKEY AGAR

MacConkey agar is a selective and differential medium used for the isolation and differentiation of non-fastidious gram negative rods, particularly members of the family Enterobacteriaceae and the genus Pseudomonas. The medium composition are as follows

Peptone (Pancreatic digest of gelatin) 17gm

Protease peptone (meat and casein) 3gm

Lactose monohydrate 10gm

Bile salts 1.5gm

Sodium chloride 5gm

Neural red 0.03gm

Crystal violet 0.001g

Agar 13.5gm

Distilled water 1L

About 11.1g of the medium was weighed and dissolved in 200mls of distilled water, homogenized with the aid of water bath machine and sterilized by autoclaving it at 121°C for 15minutes. The sterile medium was allowed to cool to about 45°C and aseptically poured into petri dishes and allowed to set on a flat surface.

SABOURAUD DEXTROSE AGAR (SDA)

This is a medium generally used for isolation of fungi organisms. Its pH can be adjusted to approximately 5.6 in order to enhance the growth of dermatophytes, and to slightly inhibit bacterial growth in clinical specimens. Its composition are as follows;

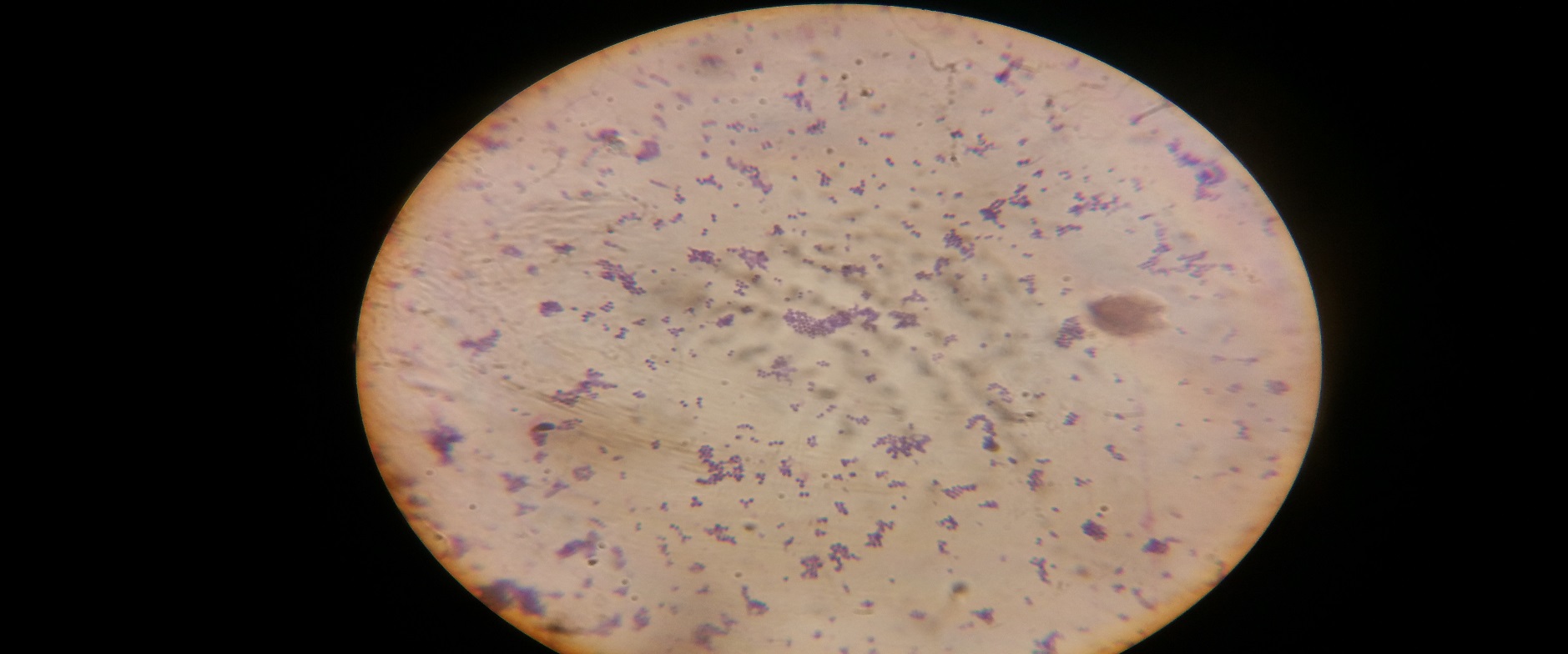
Dextrose (Glucose) 40gm

Peptone 10gm

Agar 15gm

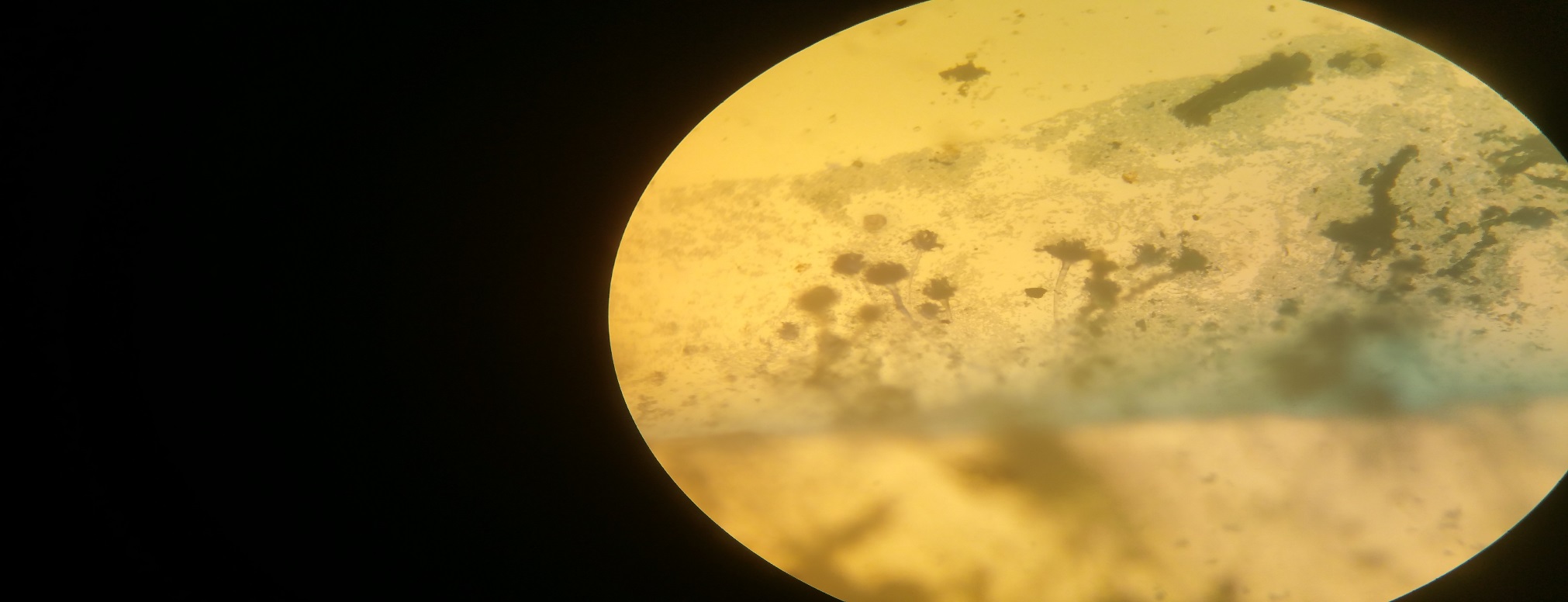
Distilled water 1000ml

About 7g of the medium was weighed and dissolved in 200mls of distilled water, homogenized with the aid of water bath machine and sterilized by autoclaving it at 121°C for 15minutes. The sterile medium was allowed to cool to about 45°C and aseptically poured into petri dishes and allowed to set on a flat surface.

  
Microscopic view of the *Staphylococcus* species



Macroscopic view of *Aspergillus* specie in slide culture



Microscopic view of *Aspergillus* specie



Research student observing a slide under microscope



*Aspergillus* specie in agar slant



Image of the pap sample