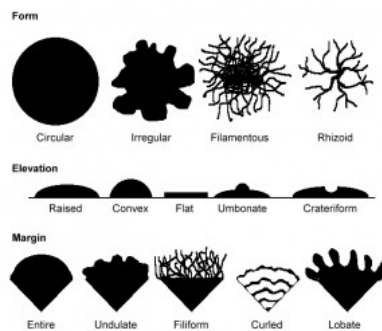


## BACTERIAL CULTURAL CHARACTERISTICS

Cultural characteristic of bacteria is one of the important aspect applied in identification of bacteria. Cultural characteristics describe various features of growth of bacteria on medium.

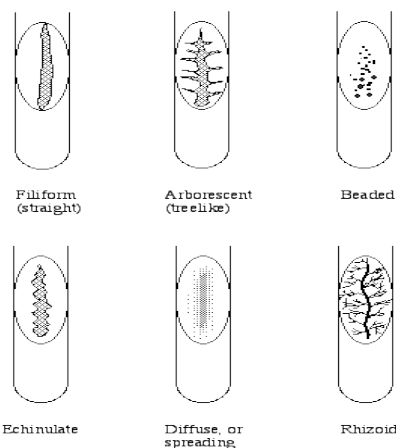
### Growth on solid media

Size	- in mm
Shape	- Round, irregular, rhizoid, spindle
Elevation	- Flat, raised, convex, umbonate
Surface	- Smooth, rough, papillate, ringed, fried egg, medusa head
Margins	- Entire, wavy, lobate, erose, curled, filamentous
Opacity	- Opaque, translucent, transparent
Consistency	- Butyrous, friable, viscid
Emulsifiability	- Easy, difficult, forms homogenous or granular suspension.



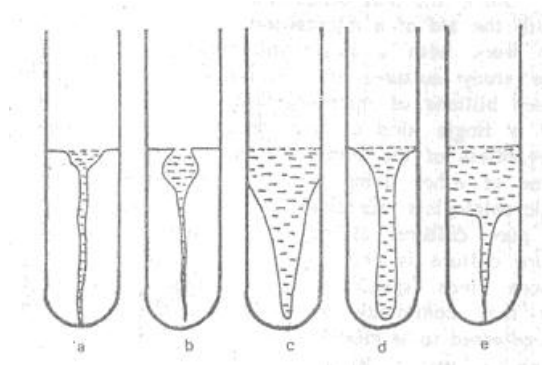
### Growth on slant

Amount	- Scanty, moderate, abundant
Form	- Spreading, filiform, rhizoid



### Growth in stab

Amount	- Scanty, moderate, abundant
Form	- Papillate, filiform, beaded, arborescent
Surface growth	- Absent, present, colouration
Liquification	- forming layer, like cup, like turnip, like funnel, tubular



Gelatin stab cultures: a.crateriform; b.napiform; c.infundibuliform; d. snatiform

### Growth in liquid media

Amount	- Scanty, moderate, abundant
Surface growth	- Absent, present, ring, pellicle (thin, thick, smooth, granular)
Deposit	-Absent, present(slight, moderate, abundant, powdery, viscid)
Turbidity	- Absent, present
Odour	- Absent, present

### Exercise

1. Describe the colony characteristics of *Escherichia coli* on MacConkey's agar medium.
2. Describe cultural characters of *Staphylococcus aureus* in Nutrient Broth.

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