NDICES OF Food SANITARY QUALITY
AND SANITIZERS
M.Sc.(Microbiology) Semester IV
Unit -IV

SMRITI PANDEY

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- **Indicator organisms** can be employed to reflect the microbiological quality of foods relative to product shelf life or their safety from foodborne pathogens. In
- general, indicators are most often used to assess food sanitation. Group of microorganisms are commonly tested for and
  - used as indicators of overall food quality and the hygienic conditions present during food processing, and, to a lesser extent, as a marker or index of the

potential presence of pathogens (i.e. food safety)like

Coliforms, Escherichia.



# INDICATORS OF FOOD SAFETY

- Microbial indicators are employed more often to assess food safety and sanitation than quality.
  - Ideally, a food safety indicator should meet certain important criteria. It should

    1.be easily and rapidly detectable.
    - 2.be easily distinguishable from other members of the food biota.
    - 3.have a history of constant association with the pathogen of concern
    - 4.always be present when the pathogen of concern is present.



### rowth:

- like most other non pathogenic G(-) bacteria, coliforms grow well on many media and in many foods.
- grow at -2°C ~ 50°C. In foods, growth is poor or very slow at 5°C.
- 3) grow over a pH range of 4.4-9.0.
- 4) grow on minimal medium carbohydrate(e.g. glucose) + inorganic nitrogen (e.g. NH4SO4).
- grow well on nutrient agar and produce visible colonies within 12-16 h at 37°C.



## 2. Enterococci

- Features of the classical enterococci that led to their use as pollution indicators for water arethe following:
- do not multiply in water, especially if the organic matter content is low.
- generally less numerous in human feces than E. coli, with ratios of fecal coliforms to enterococci of 4.0 or higher. The classical enterococcal tests presumably reflect more closely the numbers of intestinal pathogens than fecal coliforms.
- The enterococci die off at a slower rate than coliforms in waters and thus would normally outlive the pathogens.



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