

Bacterial Culture Media Types



(Mind map)

Types of media

Simple media

Pentone water

peptone + 0.5% NaCl

Nutrient Broth

meat extract

Nutrient Agar Plate

Nutrient broth with 2% agar

Bacteria Grown: Staphylococcus aureus

Enriched media

Blood Agar

Nutrient agar heated to 45°C with added sheep blood (antibody-free)

display hemolytic activity:

Beta (Complete) Hemolysis: Staphylococcus aureus, Streptococcus pyogenes

Alpha (Partial) Hemolysis: Streptococcus viridans, pneumococci

Gamma (No Hemolysis): Enterococci

Chocolate Agar

Nutrient agar heated to 100°C with added blood, breaking down hemoglobin into brownish haematin

Bacteria Grown: Haemophilus, Neisseria

Haemophilus, Neisseria

Types of media

Differential Media (based on biochemical reactions)

MacConkey's Agar

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Thiosulfate-Citrate-Bile-Sucrose Agar (TCBS)

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Selective Media (dyes, antibiotics, and specific chemicals that inhibit non-target organisms)

Lowenstein-Jensen Medium:
Selective Agent → Malachite green.

**Bacteria Grown:
Mycobacterium tuberculosis.**

Blood Tellurite Agar:
Selective Agent → Potassium tellurite.

**Bacteria Grown:
Corynebacterium diphtheriae.**

