

Report 8

baby girl, 5 days old. Full-term normal vaginal delivery. Presented with fever (38.5°C), irritability, poor feeding, and bulging anterior fontanelle. Seizures noted on admission.

Samples Collected: Blood for culture & CSF via lumbar puncture.

CSF Findings: Turbid CSF, ↑ WBC count (neutrophilic predominance) ↓ Glucose, ↑ protein.

Proceed with Gram stain and Full Identification, you are provided with MacConkey's agar plate.

Gram Reaction.

Gram = V.E. Rods

Colonial Morphology

E. coli → Pink colony, MacConkey Lactose Ferment
 EMB green metallic, opaque
 Klebsilla → Purple mucoid colony, opaque, Lactose Ferment
 Proteus mirabilis → circular, translucent, spreading colony with swarming.

Requirements: Pseudomonas → irregular, flat colonies, with metallic green pigment.

- Oxidase test strip
- Tryptophane, water, both media, Kovac's reagent
- Christensen's Urea broth
- Simon's Citrate agar in salt test tube
- Kligler Iron agar
- Glucose Phosphate broth + methyl red indicator + 5% α naphthol
- Semi solid for Motility count 7 test + 40% KOI +

Rapid test results

Oxidase → negative → Proteus.

Overnight tests results (Day 2)

Proteus E. coli Pseudomonas Klebsilla

Mirabilis

Urease test → + - - +

Indol test → - + - [?]

KIT A → y/y + gas + H₂S y/y + gas red/red y/y + gas

VP → - + - +

MR → + + - +

The isolated organism is:

Proteus mirabilis, Klebsilla, E. coli, Pseudomonas

Citrate → - - + +
 motility → - + + -