

Motility

Intended Use:

- Used for detecting motility of microorganisms.

Principle:

Motility is apparent by the presence of diffuse growth away from the line of inoculation.

Test Procedure:

1. Inoculate with growth from an 18-24 hour culture by stab inoculation with a needle.
2. Incubate at a temperature and duration appropriate for the organism being tested.
3. Examine tubes for growth and signs of motility.

Results:

- Motility is apparent by the presence of diffuse growth away from the line of inoculation.
- Non-motile organisms only grow along the line of inoculation.

Limitations:

- The motility of *Proteus* spp. is temperature dependent.
- Due to the temperature dependency of motility in some organisms, a negative tube should be incubated an additional 5 days at a lower temperature of 22-25°C.