

Preserving Pure Culture



A **pure culture** is a significant research subject in the field of microbiology. It contains a single species of microorganism derived from a mixed culture. Subculturing is a known method used to preserve the viability of the sample, but this practice is laborious and exposes the culture to contaminants. In modern times, refrigeration offers a great solution. It can be used to maintain the viability and purity of pure cultures simultaneously, without the need for repeated subculturing.

ISOLATION



A small sample from a mixed population is aseptically transferred into a fresh sterile growth medium. The cells are dispersed across the surface of the medium or thinned many folds until one species is isolated.





Lisco Laboratory incubator

Growing of microorganisms under controlled temperature for a period of time.

REFRIGERATION



Esco HP Series Laboratory Refrigerators

Lab fridges provide short-term storage. Low temperature (4°C) can slow down metabolic activities of the microorganisms; 2-3 weeks for bacteria and 3-4 months for fungi.

5 TIPS TO PREVENT CROSS-CONTAMINATION DURING THE PROCESS OF ISOLATION





