

CY-612 Microbial Assay Research Techniques

Culture Preparation: Preparation of various types of culture media; sub culturing of common aerobic and anaerobic bacteria, fungus and yeast. Sterilization techniques: Various types of Sterilization techniques and their validation. Isolation and Purification: Isolation of microorganism from the soil, study of production of microbial enzymes such as amylases and proteases etc. Biological Evaluation: Antimicrobial testing by using agar well, tube dilution and disk diffusion method and micro titer plate method. Determination of MIC and MBC. Introduction to tissue culture technique. Determination of cytotoxicity and anticancer activity. Determination of antiviral activity. Determination of antioxidant activity by DPPH method. Determination of anti-biofilm activity.