

Aseptic and efficiently  
to minimize the time



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Aseptic technique is a method used to keep the work and worker free of bacterial contamination. Louis Pasteur was a French scientist who lived in the 19th century. He discovered the first vaccine for rabies, but is more famous for the aseptic technique. Bacteria are found everywhere, and some are good for us while others are harmful due to they cause diseases.

Microbiologists, scientists, and doctors use aseptic technique to stop contamination by microorganisms in surgery rooms, clinics, laboratories and many more places. It is a combination of laboratory methods which are used to keep microorganisms from growing in an area.

It can also prevent the spread of a microorganism from one area to another. It is used for a variety of procedures such as transferring cultures, isolation of pure cultures, helping with a baby's birth by vaginal delivery performing various surgical techniques and more. When starting an experiment that needs the aseptic technique you will need disposable sterile petri dishes to hold bacterial cultures, sterile culture tubes, disposable pipettes, bunsen burner, inoculation loop, and a sterile cabinet. The aseptic technique procedure is prepare and clean the work area before beginning and set up materials.

One will then flame the inoculating loop before making a transfer of bacteria from one container to another. Never lay an inoculating loop on the bench top if you are not sure it has been flamed first. Next, flame the opening of glass containers before removing bacteria from them and do not lay the cap of containers of bacteria on the bench top while bacteria are removed from or transferred to the container. The cap should remain under your control

throughout the transfer. Make sure oneworks quickly and efficiently to minimize the time the culture is exposed tothe environment.

Once you are done flame the opening of the glass container aftertransferring bacteria to another container. One should close everything securelyand put materials back properly. Finally, clean work area again to protect otherfrom possible contaminations. The importance of the aseptic technique is to preventcontamination on the one doing the experiment, others, and the actual experiment. The aseptic technique is beneficial, because it prevents the smallest cut onyour body during lab or people undergoing surgery from getting infected. If theprocedures are not done correctly or not used at all this could cause timewasted, bacterial mutation, infections, sickness, and even death.