



**Question 19:** In general, could you please describe how a microbiological isolator for use with bacterial cultures works?

**Answer:** In general, most isolators used for lab analysis or culture for production applications are closed systems in which the only air exchanged with the outside is via HEPA filtration. Various features are available such as temperature control, filtration systems for cytotoxic or harmful compounds, and the scale of each isolator can be customized. Some isolators are attached to incubators while others totally enclose a temperature control unit.

ABC has worked on various clinical manufacturing systems and other systems used for laboratory applications. The environment inside the isolator was sanitized using a sterilant gas such as vaporized hydrogen peroxide or was manually decontaminated and operated as a 'Class 10,000' (Grade B) type environment.

Advanced Barrier Concepts, Inc. would be happy to send you some additional information once we know your specific requirements. Isolators can be customized to fit any application. ABC does not fabricate isolator units, but does work with pharmaceutical, biotech, and life sciences organizations to guide them through the process from concept development and design all the way through validation and licensing, or any sub-section of the work with which we can be of assistance. ABC has experience with various isolator units in many different applications.