

Sterilization



It is possible to obtain various sterility assurance levels with our products and many of our customers have successfully used our products for a variety of different sterile applications, check our [citations page](#) for more details. It is also possible to have a modification or customization made to accommodate a particular need or sterilization. Specific materials can be selected for most wetted components of the systems, however below is a table showing all of the standard wetted materials contained in ViVitro products:

		Autoclave	Dry Heat	Liquid Chemical	Ethylene Oxide (EtO)	Gamma Irradiation	Electron Beam
Elastomers/ Rubbers	Silicone	Good	Good	Good	Good	Good	Good
	Nitrile (Buna-N)	Good	Fair	Good	Good	Good	Fair
Fluoropolymers	Polytetrafluoroethylene (PTFE or Teflon)	Fair	Fair	Good	Good	Poor	Poor
Polyolefins	Polyvinyl chloride plasticized (PVC)	Fair	Fair	Good	Good	Good	Good
Polystyrene/ Styrenics	Acrylonitrile butadiene styrene (ABS)	Poor	Poor	Good	Good	Good	Good
	Acetals (POM)	Good	Good	Good	Good	Poor	Poor
	Acrylic	Poor	Poor	Good	Good	Good	Good
	Polycarbonate	Fair	Fair	Good	Good	Good	Good
Metals	Platinum	Good	Good	Good	Good	Good	Good
	Stainless Steel	Good	Good	Good	Good	Good	Good

Based on this list, the best options for sterilization of standard parts is to perform Ethylene Oxide sterilization or perform a flush with a liquid sterilant such as [Actril](#)[®].

If using [Actril](#)[®] with ViVitro Spring Loaded Disc Valves, ensure that old revision beryllium copper springs are not in use (used in valves purchased prior to 2014) as they will corrode if used with [Actril](#)[®]. If in doubt, replace the Disc Valve springs with stainless steel springs, part number SLDV05.

Where possible ViVitro is able to provide customized bundles of consumable parts to make managing bioburden as hassle free as possible.

Contact us to learn about how ViVitro can help you determine the Sterility Assurance Level you require. ViVitro can also assist with validating a specific sterilizing process.