

The Vascular Package of the TEB 100 Series of EBERS' bioreactors has been conceived **to develop successful tissue-engineered prosthetic vessels**. The main component of the culture package is a chamber that permits to accommodate autologous, allogenic, xenogenic and synthetic scaffolds of different lengths and diameters. Ports of the chamber permit to circulate two different media through the lumen and outside the vessel, thus allowing to control in an independent manner the flow conditions at the inner and outer surfaces of the scaffold. This feature is particularly useful **to grow tubular constructs seeded with different types of cells at both surfaces in long-term co-culture experiments**. If needed, the Vascular Package also includes tubing, reservoirs, valves and the rest of accessories required to complete the culture circuit. All the components can be repeatedly sterilized by autoclaving.

Patent Pending

Vascular Culture Chamber	
General features:	Designed to accommodate vascular scaffolds permitting cell culture in tissue engineering applications
Design:	Easily adaptable to different vessel lengths and diameters Ports permit to circulate media through the lumen and outside the vessel through 2 independent circuits Two-component architecture to guarantee easy handling of the vessel
Scaffolds/samples:	Wide variety of samples/scaffolds can be accommodated Different models available, depending of the scaffold size Customized fabrication if needed
Sterilization:	All chamber components are bioinert and can be repeatedly autoclaved at 121°C, 1.1 bar



ADVANTAGES

- ✓ Independent circulation of media through the lumen of the vessel and its external surface
- ✓ Accommodation of scaffolds of different lengths in the same chamber
- ✓ Transparent material that permits visualization
- ✓ Easy handling of the sample
- ✓ Customized fabrication at reduced cost