

eProd[®]

bioreactor

single use

Up to 1000 L



TECNIC

Scalable, Flexible, Future-Proof: The ePROD® Bioreactor Single Use Transforms Bioprocessing

The ePROD® Bioreactor Single Use represents a significant advancement in the biomanufacturing industry, catering to the **growing demand for scalable and flexible single-use bioreactor systems**. Built for both small and production scale to meet the needs of commercial production, with features that ensure optimal process performance, ease of implementation, and future-proof flexibility.

Designed with a keen **focus on process performance, providing consistency, reliability, reproducibility, and flexibility** that matches or surpasses traditional stainless steel bioreactors. Its innovative design features optimal mixing capabilities, mass transfer, and flexible sparging options, making it a versatile choice for various bioprocessing applications. The system's automation and control systems are critically chosen to enhance quality assurance and compliance, offering remote control, monitoring capabilities, and standardized operations across facilities.

Ease of implementation. Previous qualification data from similar single-use systems can be utilized, simplifying and speeding up the qualification process for new bioreactors. Its design also allows for volume flexibility, which is crucial for manufacturing high-value biologics efficiently and minimizing waste.

TECNIC's **eBAG® 3D STR** is **specially designed for seamless integration with our single-use bioreactor systems**, addressing the unique demands of mammalian and microbial bioprocessing with unparalleled efficiency. Manufactured in an ISO7 cleanroom, these bags ensure sterility and are available in sizes from 100L to 1000L, covering a broad spectrum of bioprocessing needs.

Single Use STR eBAG®
100L - 1000L



Key Functionalities

ePROD® Bioreactor Single Use

Dual purpose Configuration	Microbial Cell culture Dual
Integrated peristaltic pumps	4x for acid, base, antifoam and media addition
Volumes	100-1000L
Temperature control	Included
Stirrer speed control	Included
DO control	Included
pH control	Included
Foam control	Included
Mass flow controller for gas addition	Included
Recipes management	Included
User's management	Included
Reports	Included
TECNIC OPC server	Included
eADVANCED software	Included
Weight measurement, load cell	Included
Pressure control	Included
Gravimetric Control	Optional

eBAG® 3D STR

Agitation for cell or microbial culture	Included
Number of ports	As required
5-layer Structure (Outer to inner layer)	LPDE 50µm / TIE 10µm / EVOH 20µm / TIE 10µm / ULPDE 230µm
Regulations	GMP
Working Temperature	+5°C to +40°C
Thickness (mm)	0.320



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Technical data subject to change without notice.
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