

MIXING TANKS

CELLTOKI

Mixing tanks are essential in bioprocessing enabling efficient management of liquids across different production stages.

Mixing tanks ensure **homogeneous mixing and consistency during dynamic processes.**

Their design, tailored to the specific needs of biomanufacturing, helps maintain the quality and stability of biological products.



50L_Mixing tank

KEY BENEFITS

- **Integrated and intuitive control system:** User-friendly interface designed for efficient operation in mixing and conditioning processes.
- **Versatile configuration:** Supports a wide range of applications.
- **Advanced connectivity:** Enables seamless integration with process control, data acquisition, and automation systems.
- **Single-use contact components:** Reduce the risk of cross-contamination and eliminate the need for cleaning and validation procedures.

TECHNICAL SHEET

SPECIFICATION	DESCRIPTION
Volume	50L, 100L, 200L, 500L
Hardware material	AISI 304 stainless steel
Optional Cooling System	Jacket for temperature control from 5°C to 50°C
pH Measurement	Single use pH sensor Optional adjustment using peristaltic pumps
Optional Conductivity Measurement	To ensure precise control of solute concentration
Integrated Control System	Touch panel with access control and SCADA integration; optional GMP-compliant features (GAMP5, 21 CFR Part 11, Annex 11)
Optional Load Cells	For precise dosing and level control
Plastic material	LDPE-EVOH-ULDPE
Mixing	Magnetic impeller

CELLTOKI BIOPROCESSING SL

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APPLICATIONS IN BIOTECHNOLOGY

- Culture media preparation
- Buffer preparation
- Solution mixing
- Intermediate product homogenization
- Drug substance and drug product formulation

FLEXIBLE MIXING BAG

- Adjustable configuration:
- Silicone/TPE tubing
- Connectors: Tri-clamp, AseptiQuick®, MPC/MPX, Luer lock...
- Flexible port configuration
- Powder port
- Sampling: needle-free, sampling bag.



Flexible mixing bag

STERILITY, TRACEABILITY & REGULATORY COMPLIANCE

- **Manufactured in ISO Class 7 cleanroom** under controlled conditions to minimize contamination.
- **Sterility - Gamma irradiation** (25–50 kGy) validated according to ISO 11137. Double packaging ensures sterility.
- All contact materials meet **US and EU pharmacopeia** and **ISO standards**.
- **Full traceability**, 100% integrity and leak testing, and visual inspection.
- **Flexible validation packages** tailored to regulatory and technical needs across all project phases.