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Thermo Fisher introduces integrated platform to advance scalable cell therapy manufacturing

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New Gibco® CTS® DynaXS® Single Use Bioreactor supports flexible, cGMP-ready cell expansion



Thermo Fisher Scientific has introduced the Gibco™ CTS™ DynaXS™ Single Use Bioreactor, a purpose-built expansion platform designed to help cell therapy developers scale manufacturing with precise control, flexibility, and regulatory readiness.

As cell therapies move from early research into clinical development and commercialisation, manufacturers face increasing pressure to transition from static culture systems to scalable, automation-ready platforms that can support consistent quality, cost control, and cGMP compliance. Developers must balance process flexibility with the operational demands of clinical manufacturing, often within limited facility space and tight development timelines.

At the same time, the cell therapy landscape continues to evolve beyond oncology into a broader range of indications, including autoimmune and other emerging areas. This shift is driving the development of new cell modalities and diverse manufacturing approaches. These emerging applications often require different process configurations and production scales, adding complexity to manufacturing strategies across all stages of development and commercialization.

The CTS DynaXS Single Use Bioreactor was designed specifically to address these evolving needs. The stirred-tank, single-use system supports cell expansion across development and early clinical volumes, offering a scalable platform from small process development batches to larger cGMP manufacturing runs.

The CTS DynaXS bioreactor extends Thermo Fisher's Cell Therapy Systems (CTS) portfolio, supporting workflows from cell isolation and activation through expansion and downstream processing. This integration enables customers to build modular, scalable manufacturing strategies with unified technical support and regulatory documentation.