

Customized Nunc tubes and packaging for a clinical study

Client

A leading medical research institute

Background

This institution conducts large-scale clinical trials and epidemiological studies of chronic diseases, such as cancer and vascular conditions, to seek answers to some of the most important questions about the causes, prevention, and treatment of disease. As a result of these large-scale studies, they aim to generate and disseminate reliable evidence from observational epidemiology and from randomized trials that lead to practical methods of avoiding premature death and disability. Having conducted some of the largest randomized trials ever undertaken, the client is fully aware of the necessity to identify a consistent supply of reagents and consumables that are assembled into their collection kits before being shipped globally. After several decades of having been a Thermo Fisher Scientific customer, the client asked if we could provide [Thermo Scientific™ Nunc™ cryogenic tubes](#) customized with unique barcoding for every set of 10 tubes, with each set packaged separately so that they can be efficiently assembled into individual kits for their large global study.

Challenges

To prevent any delay in their study, the client urgently needed to identify a supplier who could provide years of a consistent supply of a customized solution of storage tubes with a unique barcode for each set of 10 tubes. The design of their study required kits that include ten 1.8 mL cryotubes having an identical 1D barcode, with each set having its unique 1D barcode and 3 differently colored caps. Also, to aid in the efficient assembly of their collection kits, each set of 10 tubes needed to be bundled into a single package, enabling [Fisher BioServices](#) to simply add a set of tubes to each kit to be assembled.



The assembled kits are shipped globally to participants for sample collection and then returned to the medical research institute where the tubes are scanned and stored at -80°C . During analysis, the tubes are thawed and placed into a Beckman™ clinical analyzer, which requires the tubes' dimensions to be compatible with the sample holder of the analyzer. After analysis, the remaining samples are placed in long-term storage in the gas phase of liquid nitrogen.

Capabilities

- Ability to provide a custom solution that creates packaged sets of 10 tubes, with each set having a unique barcode and prepackaged to enable efficient assembly into kits
- Provide tubes able to withstand storage at -80°C and long-term storage in liquid nitrogen, while being compatible with Beckman clinical analyzers
- Integrated quality systems covering supply chain, manufacturing, and quality control processes in an ISO 13485–certified facility
- Expanded manufacturing ability, enabling Thermo Fisher to meet the increased demand of our clients for years to come

Partnership

The client chose to work with Thermo Fisher due to an established and trusted relationship formed after several decades of meeting their storage tube needs. We have a history of providing them with high-quality products and an ability to quickly and continuously accommodate their large demand for storage tubes due to our manufacturing capabilities and specialized service and support. Although we have worked with the client previously, it was our willingness to design a custom solution that built a stronger, long-term partnership. This partnership allowed our specialized original equipment manufacturer (OEM) team to fully understand the client's technical and business requirements, leading to a customized solution to match their needs.

Results

With the client's high volume of supply in mind, our manufacturing processes offered an adaptable, robust supply chain and large-batch production samples. This enabled us to deliver a high-quality custom storage tube solution within the desired time constraints.

Summary

To help ensure their large-scale clinical trials stayed on schedule, the client relied on Thermo Fisher Scientific as a sole-source provider to consistently supply a customized solution for their 1D-barcoded storage tube needs. Our OEM and Commercial Supply team established a collaborative partnership with our client, supplying Nunc storage tubes to meet their product demand within strict time constraints.



About Thermo Fisher Scientific OEM and Commercial Supply

The breadth of our product portfolio affords our partners a range of options in selecting tailored technologies to help shorten their development timelines and maximize return on investment. Additionally, our dedicated OEM and Commercial Supply cross-functional team understands the unique nature of OEM requirements to make the partnership process a smooth one.

Our best-in-class manufacturing processes, certified cleanroom facilities, integrated quality management system, and extensive R&D experience enable us to produce high-quality products and develop innovative workflow solutions for partners in life science research, diagnostics manufacturing, and industrial markets. A solid worldwide infrastructure helps ensure on-time delivery, long-term sustainability, and superior service and support. Our team works with you every step of the way.

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