

MAINTAINING THE COLD CHAIN IN EUROPEAN DISTRIBUTION

High biologics growth in Europe fuels the need for cold chain management

Pharmaceuticals based on biologics and vaccines have grown tremendously in the past decade, with vaccines among the fastest growing segments of the market today.¹ Cold chain management is a top priority for the biopharmaceutical industry to ensure that the quality and efficacy of drug product is never compromised.

With high growth expectations in Europe, the need for regional and country specific cold chain expertise and storage capabilities must not be underestimated. Maintaining cold chain product integrity demands rigorous planning and attention across the European supply chain. A single broken link can result in the loss of scarce resources and time.



**\$300M OF
VACCINES**

are destroyed each year due to improper storage and distribution²



**CLINICAL TRIAL SUPPLIES
MARKET FOR BIOLOGICS
IN EUROPE**

is expected to reach around \$240M by 2025 at an annual growth rate of 9.9%³



**1/5 OF ALL CLINICAL
TRIALS WORLDWIDE**

are conducted in the EU⁴

Sources:

1. Biologics Market – Growth, Trends, and Forecast (2019 – 2024). Report by Mordor Intelligence
2. Centers for Disease Control and Prevention
3. Clinical Trials Supplies Market – Global Forecast to 2025. Report by Market and Markets™
4. Clinical Trial Supply & Logistics Market for Pharma 2020-2030. Report by Visongain

Top tips on maintaining the cold chain in European distribution



INTERACTIVE GRAPHIC: Hover over bullet points and icons to reveal more details



SUPPLY CHAIN

Map out your entire supply chain

Mitigate risk

Maintain cold chain integrity



LABELING

Choose the best label adhesive for your product

Apply a just-in-time label approach



STORAGE

Store your product in the right temperature environment

Follow EU GDP guidelines

Address the need for analytical and stability testing



REGULATORY

Keep updated on tightened regulatory regulations

Get your documentation in order to avoid customs delays



QUALIFIED PERSON (QP)

Employ or contract Qualified Persons in Europe

Understand that additional requirements are necessary for vaccine release and for Advanced Therapies Medicinal Product (ATMP)

Include the QP's statement in the Clinical Trial Application



TRACKING

Use temperature monitoring devices and tracking systems

Consider the use of real-time GPS location trackers

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BIOREPOSITORY SERVICES

Contract best-in-class biorepository and bioservices



LOGISTICS

Appoint a logistics provider with cold chain & specialty courier services to accommodate special handling requirements

Consider using a GMP facility as a centralized hub

Make provisions for final mile distribution

Cold chain: Regulatory definitions vary globally

European Pharmacopoeia
(Pharm.Eur.)



Partner with the experts for cold chain integrity across Europe

Powered by people with a **zero temperature excursions mindset** and an exceptional commitment to providing **best-in-class cold chain services**, Thermo Fisher Scientific is the global standard for quality and assurance.



The power of the Thermo Fisher EMEA network

Our integrated EMEA network of **strategically located cGMP (current Good Manufacturing Practices) facilities and cold chain experts** support the cold chain integrity of your drug product, from molecule to medicine.



INTERACTIVE GRAPHIC: Hover over map points to reveal more details.



Partner with our experts in cold chain supplies management to ensure product integrity from molecule to medicine. [CONTACT US](#)

About us

Thermo Fisher Scientific provides industry-leading pharma services solutions including end-to-end drug development, clinical trial services and commercial manufacturing solutions to customers of all sizes through our Patheon brand. With more than 65 locations around the world, the company has extensive capabilities including small and large molecule drug substance and drug product development, viral vector and cGMP plasmid development and manufacturing to support cell and gene therapy and vaccines, clinical trial services and commercial-scale manufacturing and packaging.