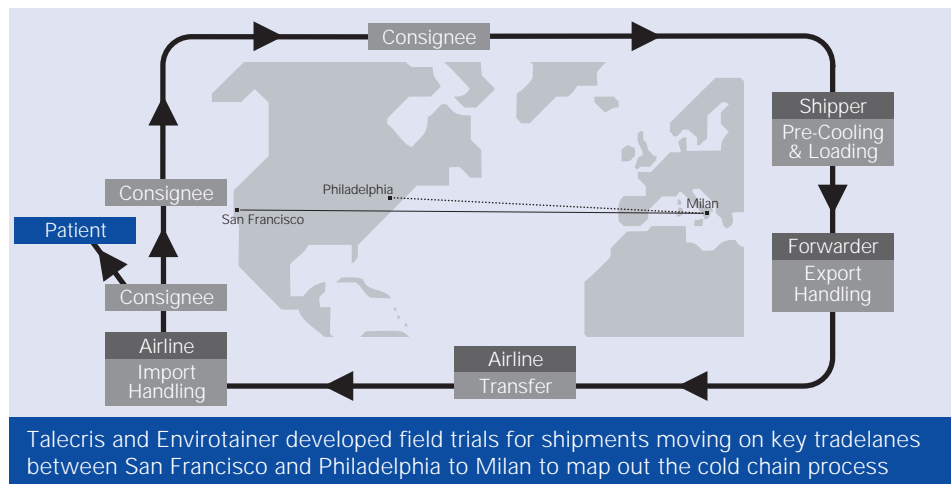


The Solution: Envirotainer

For global shipments, Talecris collaborated with Envirotainer to take advantage of its active temperature-controlled air transportation solutions. Working with the quality assurance, validation and customer operations staff at Talecris, Envirotainer:

- Established logistics parameters and assigned staff to help Talecris design a bespoke packaging system
- Developed procedures to ensure product stability throughout the shipping process
- Shared development resources with Talecris to further develop a specialized business unit: Cold Chain Management Service.



Envirotainer worked closely with Talecris to design trial runs that after analysis would lead to a defined shipping process for actual product. The shipping trial included evaluating logistics parameters, conducting collaborative meetings with the shipper, forwarder and airline, and pre-conditioning the container to +5°C.

The next steps included writing container-loading procedures, determining the best locations to place temperature monitors, creating summary reports, and co-developing preliminary shipping guidelines.

In the early stages of development, Envirotainer helped Talecris create engineering tests and trial runs for its targeted primary shipping lanes and worked closely with airlines and freight forwarders in the U.S. (San Francisco, & Philadelphia) as well as in Milan, Italy to map out process and responsibilities.

Within six (6) months, Talecris and Envirotainer jointly developed a proven solution for shipping product at 2° to 8°C in ambient conditions.

The design of this solution came as a result of Talecris doing an extensive temperature mapping study of their different trade lanes. A combination of some challenging routes in terms of extensive duration (>90 hours) combined with extreme conditions (ambient temperatures as high as +55°C and as low as -15°C) led to the design of a two-step solution. The combination of insulated box used inside Envirotainer containers has allowed Talecris to have confidence in shipping products to any region of the world, in the most extreme conditions.

The Envirotainer containers are designed to hold 2° to 8°C for more than 72 hours when ambient temperature is more than 5°C and less than 25°C higher than the temperature of the shipped product. As Talecris had identified a wider ambient range for its product, Envirotainer worked with partners to define an additional insulated box for inside the container to help stabilize temperature fluctuations during shipment.

Shipments using Envirotainer and the I-box solution have provided excellent flat line results in the 2° to 8°C range.



Jim Bacon, Director of Global Supply Chain for Talecris - Biological Products Division

"As a cold-chain management service, Envirotainer has helped us identify and implement the level of cold chain integrity that is essential to our business. In addition, the shipment summary report Envirotainer created allows us to strengthen our relations with service/transportation providers and recommend improvements. It also defines base guidelines for handling cold-chain products, identifying any temperature deviations and pinpointing problem areas"

Jim Bacon is director of global demand planning and customer operations for Talecris Biotherapeutics (formerly Bayer Biological Products), responsible for allocation and movement of products worldwide.

Envirotainer°

www.envirotainer.com

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