Adimmune and Nippon Express Leverage RelEye® for Reliable and Temperature-Controlled Pharmaceutical Shipments

This case study highlights how Adimmune and Nippon Express, through their collaboration with Envirotainer, successfully utilized the RelEye® solution to enhance temperature control, increase shipment visibility and minimize risks during transit on the Taipei (TPE) to Beijing (PEK) route.

Adimmune Corporation, a renowned pharmaceutical company in Taiwan, specializes in producing and distributing vaccines and biopharmaceutical products across Asia and beyond. Committed to delivering life-saving vaccines safely, Adimmune partnered with NIPPON EXPRESS (TAIWAN) CO.,LTD. to ensure that its temperature-sensitive shipments remained intact and met the stringent requirements of the pharmaceutical supply chain.

Commitment to Excellence in Temperature-Controlled Logistics

Adimmune has always been dedicated to advancing its cold chain management, continuously seeking optimized transportation solutions to uphold the highest standards of quality and stability. Its flu vaccines require strict 2-8°C temperature control throughout transit, making shipment visibility, autonomy, and reliability crucial factors in logistics planning.

Given the complexities of customs clearance and handling processes on the TPE-PEK route, Adimmune and Nippon Express sought an advanced active temperature-controlled solution that would not only safeguard product integrity but also enhance operational efficiency. The team required a solution that could ensure stable temperature maintenance, extended autonomy for long-duration shipments, and real-time monitoring to optimize visibility and risk management.

With a longstanding partnership with Envirotainer since 2013, Adimmune and Nippon Express identified the RelEye® RAP solution as the next step in enhancing shipment security, operational efficiency, and real-time visibility to meet their evolving cold chain needs.

Implementing RelEye® for Enhanced Temperature Control and Shipment Visibility

To guarantee the highest level of temperature stability, Adimmune and Nippon Express identified RelEye® as the ideal solution. RelEye® containers offer advanced live monitoring and robust temperature control capabilities that allowed for real-time oversight of internal conditions, battery levels, and location data—all essential for pharmaceutical shipments requiring precise temperature ranges.

Envirotainer's RelEye® containers provided a reliable, active temperature-controlled option that addressed the specific challenges of the TPE-PEK route. The container's live monitoring capabilities, accessible through the Envirotainer Portal, enabled both Nippon Express and Adimmune to track shipment metrics throughout the journey, creating a proactive approach to managing any potential issues.

With Envirotainer's Technology Transfer Package (TTP) and comprehensive qualification support, Nippon Express was able to rapidly integrate RelEye® as a key component of its pharmaceutical logistics offering. The TTP significantly reduced qualification lead times, accelerating Adimmune's market entry while ensuring product stability and regulatory compliance. In addition, Envirotainer Academy offered targeted training for all cold chain stakeholders, including ground handlers and pharmaceutical staff—equipping them with the knowledge to handle RelEye® containers efficiently and uphold Good Distribution Practices (GDP) standards.

Through controlled test shipments and streamlined training, the qualification process for RelEye® was simple and fast, enabling seamless deployment and ensuring both companies could confidently manage Adimmune's temperature-sensitive shipments.

Improved Shipment Reliability and Operational Efficiency

Since adopting the RelEye® solution, Adimmune and Nippon Express have seen significant improvements in shipment reliability, temperature integrity and logistics efficiency.

The TPE-PEK shipments have been further optimized to ensure that critical vaccines arrive intact and within the required temperature range. A key factor in this improvement was the transition from Envirotainer E-tech solution to RelEye® RAP.

The battery autonomy increased from 30 hours to 170 hours, significantly enhancing operational flexibility and ensuring uninterrupted temperature control over prolonged transit times. This upgrade further reinforced shipment reliability and streamlined overall logistics efficiency.

Key benefits realized through the RelEye® solution include:

- Consistent Temperature Control: The RelEye® containers maintained stable internal temperatures throughout each shipment, significantly reducing the risk of product spoilage or temperature deviations
- Enhanced Visibility: The live monitoring capabilities provided real-time data on the shipment's status, allowing Nippon Express and Adimmune to monitor internal temperature, battery levels, and location without interruption. This level of visibility enhanced both customer confidence and operational response
- Operational Efficiency: With fewer disruptions and the ability to proactively address any potential issues, Nippon Express optimized the shipment process, reducing delays and improving the overall handling of temperature-sensitive cargo.

Ralph Liu, Sales Strategy Department and Taichung Branch Manager, Nippon Express shared his perspective on the success of the collaboration: "Based on the successful implementation of high-standard pharmaceutical transportation using the RelEye® solution, we are excited about the potential for this highly reliable product and service combination to be more widely applied across the various industries and clients served by the NX Group."

Conclusion

The successful implementation of Envirotainer's RelEye® solution by Adimmune and Nippon Express illustrates the importance of precise temperature control and collaboration in managing temperature-sensitive pharmaceutical shipments.

Through this collaboration, Adimmune has bolstered its commitment to patient safety and product integrity, while Nippon Express has enhanced its service offering to meet the stringent demands of the pharmaceutical industry.

Together with Envirotainer, we are setting a new benchmark for reliable and visible temperature-controlled logistics, ensuring the safe and efficient delivery of critical vaccines.

About Adimmune Corporation

Adimmune Corporation is a biopharmaceutical company specializing in the research, development, and manufacture of vaccines. Established in 1965 and headquartered in Taichung, Taiwan, Adimmune is dedicated to improving public health through the provision of high-quality vaccines and biopharmaceutical products. The company's product portfolio includes influenza vaccines, enterovirus vaccines, and other biologics, which are distributed both domestically and internationally. Adimmune is committed to innovation and excellence, operating state-of-the-art facilities that comply with international standards, and engaging in continuous research and development to address emerging infectious diseases.

For more information, please visit: https://www.adimmune.com.tw/en

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About Nippon Express

Nippon Express is a global logistics services company headquartered in Tokyo, Japan. Established in 1937, the company has developed a strong global network, offering comprehensive logistics solutions that include air, sea, and land transportation, as well as warehousing and distribution services. With a commitment to innovation and customer satisfaction, Nippon Express continues to expand its services to meet the diverse needs of clients worldwide. Wikipedia

For more information, please visit: https://www.nipponexpress.com/

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