

FEATURED APPLICATION PHARMACEUTICAL & BIOMEDICAL



*The global pharmaceutical market is predicted to more than double in value by 2020, reaching \$1.3 trillion.**

When temperature-sensitive vaccines, biological samples, and medicines leave your hands for sale, research, or manufacturing, how can you be sure that unacceptable temperatures won't compromise their quality during transit?

Refrigeration equipment is not always reliable, and temperature can vary within a shipping container, delivery vehicle, lab, or collection site. Your products may pass through multiple handlers during the sample collection, manufacturing, or distribution process, possibly enduring delays and substandard intermediate storage.

A cold chain breach might go unnoticed at first, but poor temperature control can lead to ineffectiveness, contamination, bacterial growth, and infection. Unknowingly mixing, processing, or selling compromised pharmaceuticals or samples can have devastating effects in the health field, where safety is of primary importance. Plus, having to dispose of compromised drugs and contaminated samples can waste precious research time, money, and biological donations.

When you use ShockWatch Environmental Monitors, you can monitor the temperature of every shipment, helping you ensure safety and regulatory compliance. You and your customers know if your drugs, chemicals, vaccines, or samples have been exposed to unacceptable temperatures — and whether the duration of exposure was long enough to compromise the product integrity and safety. Use the devices to monitor shipments to and from hospitals, sample collection sites, labs, pharmacies, clinics, and more. These small, single-use monitors adhere directly to the product or packaging and provide accurate, irreversible evidence of any unacceptable temperature deviations — promoting safety and allowing you to make smarter decisions across the cold chain.

Minimize costly damage to your pharmaceutical and biomedical products during distribution and storage with ShockWatch Environmental Monitors.

Use ShockWatch Products on:

- Vaccines
- Medicines
- Active pharmaceutical ingredients
- Blood and plasma
- Clinical trial samples
- Cell banks
- Tissue samples
- Microbiological samples
- Viral samples
- Medical devices
- Coolers and refrigeration units

*Source: PricewaterhouseCoopers

SHOCKWATCH®
DAMAGE PREVENTION. WE'RE ON IT.

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Use ShockWatch Environmental Monitors such as ColdMark™, HeatWatch™, and WarmMark™ to monitor the temperature of pharmaceuticals and biomedical supplies in transit and storage.

■ With ShockWatch, you can:

- Reduce product damage and loss incurred due to improper handling
- Enable continuous, consistent monitoring wherever the product travels
- Employ an affordable cold chain management solution for immediate use with existing distribution systems
- Implement a program to help monitor compliance with FDA, USP, ICH, and other health regulations
- Enable temperature monitoring at multiple points throughout a truck or storage unit
- Provide permanent, irreversible evidence of exposure to unacceptable temperature conditions
- Impact handler behavior
- Allow for inconspicuous placement on packages, transport cases, or refrigerators
- Increase customer satisfaction and gain a visible marketing edge

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