

# MICRO Q TECHNOLOGIES

## CLINICAL TRIAL COLD CHAIN SHIPPING

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The importance of clinical trials is no secret. Clinical trials test the safety and efficacy of many new pharmaceuticals and therapies for a wide range of diseases and conditions. What can be discovered in clinical trials can be, not only life changing for patients, but life saving. It is, of course, very important to discover new treatments for diseases and conditions, but not so important that we risk public health and safety. Clinical trials ensure that the pharmaceuticals and therapies that reach market are not only effective but safe for patients. With a significant portion of clinical trial materials being temperature sensitive, maintaining the cold chain when shipping for clinical trials is incredibly important. A recent press release from IMARC discusses the growing importance of an effective clinical trial cold chain, "Driven by an increased spending and globalization of clinical trials, the demand for efficient storage and transportation services for clinical trial materials has increased significantly over the past few years. Research firm IMARC Group expects this market to grow at a CAGR of around 4% during 2012-2016, according to its latest report titled "Global Healthcare Cold Chain Logistics Market Report & Forecast: 2012-2017". According to an analyst at IMARC Group, "the increasing trends in clinical trials outsourcing is creating additional steps in the overall supply chain of clinical trial materials (drugs, blood samples, tissue samples, urine samples, sputum samples, etc).

### ADDITIONAL CLINICAL TRIAL COLD CHAIN SHIPPING BENEFITS

In many cases contract research organizations and their sponsors may be present in two different countries, this is quite evident from the fact that the number of clinical trials in many Asian, Latin American and East European countries are increasing rapidly whereas the sponsors are based in the US and Western Europe. The large distance creates huge requirements for the efficient cold chain packaging, storage and transportation of clinical trial materials between the clinical trial sponsor and the contract research organization." One way to protect clinical trial materials during transport is with a reliable clinical trial cold chain shipping device. The MicroQ iQ clinical trial cold chain shipping device is temperature sensitive and capable of active heating and cooling. No matter the distance shipped or the fluctuations in ambient conditions, the iQ clinical trial shipping device is capable of maintaining the desired temperature at all times. Additionally, the iQ device is incredibly durable. There are a number of potential hazards when shipping any distance, and the iQ is capable of protecting clinical trial materials, even with rough handling. The device will also save money when shipping as it is lightweight and reusable. Because it is lightweight, it will keep the cost of shipping lower and is very easy to ship with couriers such as FedEx and UPS. Because it is reusable, disposable shipping containers will not be necessary which will save additional money. The device simply needs to be recharged, reprogrammed and shipped again. The MicroQ iQ clinical trial cold chain shipping device choice to maintain the cold chain at all times and protect clinical trial materials.

### Benefits of Micro Q Technologies



- Active precision heating or cooling
- Temperature LCD display resolution = 0.1° C
- Temperature control range 0° C to 42° C
- Rechargeable battery with integrated power supply
- Ambient Temperature range -20° C to 50° C



- Temperature holding duration 24+ hours to 168+ hours
- Microprocessor controlled heat pump
- Tamper resistant key switch
- Temperature control resolution = 0.0625° C



#### LOCATION

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