

MICRO Q TECHNOLOGIES

BIOPHARMACEUTICAL COLD CHAIN SHIPPING DEVICE

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Every day, all over the world, new drug therapies are being developed to treat a myriad of diseases and conditions. Researchers, scientists and physicians are all looking to find the best, most effective treatments and, in the world of drug therapies, biopharmaceuticals are very important. Reportlinker.com discusses how big the biopharmaceutical industry has grown and continues to grow, "The global biopharmaceutical industry is currently worth over \$145 billion, according to research conducted by BioPlan Associates. The industry should exceed \$167 billion in 2015, says IMARC. Biopharmaceuticals are used in the prevention and treatment of disease, and there are over 300 approved biopharmaceuticals on the market, with many in clinical development yet to come." Biopharmaceutical therapies are not only incredibly important to the patients who need them, but billions of dollars are invested in the development and distribution of biopharmaceuticals. Biopharmaceuticals tend to be temperature sensitive and often need to have a precise temperature maintained at all times. From point of manufacture, to laboratories or medical facilities to patients, no matter the distance shipped, it is important that biopharmaceuticals are transported at the correct temperature so that integrity is maintained, not only so that money is not wasted, but so that patient safety is protected.

ADDITIONAL BIOPHARMACEUTICAL COLD CHAIN SHIPPING DEVICE BENEFITS

FisherBioServices.com discusses the importance of maintaining the biopharmaceutical cold chain at all times, "Cold Chain" refers to the undisrupted series of logistical activities (packaging, shipping, storage, distribution, handling) of products that must be maintained within a given temperature range. And as those of us in the biopharmaceutical industry know well, maintaining cold chain is critical to the integrity of biologically derived therapeutic products. The Centers for Disease Control and Prevention (CDC) has estimated that \$300 million worth of vaccines alone are destroyed each year due to improper storage and distribution; the numbers for other bio-therapeutics are unknown. The scary aspect of that figure is that this includes only the product that was known or suspected to be compromised. Think of the health care implications for administering adulterated medications to patients! The consequences can go well beyond economic losses: failure at some point in the cold chain can potentially have dire consequences." In order to protect the billions of dollars invested in biopharmaceuticals and, more importantly, patient safety, a biopharmaceutical cold chain shipping device should be used for transporting biopharmaceuticals from one location to another. The MicroQ iQ biopharmaceutical cold chain shipping device is a temperature sensitive device, capable of active heating and cooling to ensure the desired temperature is maintained at all times. It is controlled by a microprocessor and, should it sense fluctuations in ambient temperature or humidity, it can adapt to ensure the desired internal temperature is continually maintained. Additionally, it is durable, lightweight and reusable. It can withstand rough handling during transport, and after being recharged, can be used again for additional biopharmaceutical cold chain shipping. The MicroQ iQ biopharmaceutical cold chain shipping device will protect biopharmaceuticals during transport, prevent the loss of money and help protect patient safety.

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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