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BATTERY  
MICRO Q  
TECHNOLOGIES

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## BLOOD SAMPLE SHIPPING

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Blood samples are taken many times per day, every day, for a variety of reasons. Blood samples are collected and tested to tell doctors how well a patient's organs are functioning, it can also tell a doctor if a patient has a disease, and blood tests can also indicate whether a medication is working correctly or not. All of these things are vitally important to a patient's health so it is necessary that the results are accurate. Blood can be shipped at a variety of temperatures depending on the type of test the blood sample will undergo. Specimen Care discusses the logistics involved in shipping blood, "It is important to keep in mind that sample transport and storage conditions, together with the time interval between collection and testing, can have an important effect on the quality of test results. Despite increased point-of-care testing in many areas of laboratory medicine, the vast majority of specimens are collected in one place and transported to another for analysis. Some tests are available only in certain reference centers, requiring samples to be transported over long distances." Even though some blood samples can be tested on site, many, if not most, still have to be shipped to a laboratory for testing.

### ADDITIONAL BLOOD SAMPLE SHIPPING BENEFITS

Bone marrow samples are often difficult and painful to obtain, this coupled with their temperature sensitivity necessitates precision and care when transporting bone marrow samples. Bone marrow samples can encounter a number of potential hazards when being shipped from the medical center where they were collected to the lab where they will be processed. Depending on the shipping distance, they could encounter extreme changes in temperature and humidity. The samples could experience delays and rough handling as well. A device like the MicroQ iQ shipper is temperature sensitive and can accurately maintain the desired temperature at all times. The device is capable of active heating and cooling and is controlled by a microprocessor so should it sense a variation in temperature it will automatically adjust to ensure your sample is protected. The device is also lightweight and durable, making shipping easy and safe. The device is also reusable and simply needs to be recharged and sent along again. Because the device is reusable it will significantly save on the cost of shipping over time and will also eliminate the need for wasteful disposable containers. The MicroQ iQ shipping device is the ideal bone marrow sample shipping device and will protect your sample, ensuring sample viability and ideal conditions for testing.

### Benefits of Micro Q Technologies



- Active precision heating or cooling
- Temperature LCD display resolution =  $0.1^{\circ}\text{C}$
- Temperature control range  $0^{\circ}\text{C}$  to  $42^{\circ}\text{C}$
- Rechargeable battery with integrated power supply
- Ambient Temperature range  $-20^{\circ}\text{C}$  to  $50^{\circ}\text{C}$



- Temperature holding duration 24+ hours to 168+ hours
- Microprocessor controlled heat pump
- Tamper resistant key switch
- Temperature control resolution =  $0.0625^{\circ}\text{C}$



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