What is claimed is:

Claim 1. A method for monitoring the freezing of a biopharmaceutical material contained in a biocontainer, the method comprising the steps of:

providing a sterilized biocontainer of a predetermined volumetric capacity comprising an indicator to indicate whether said biopharmaceutical material was properly frozen, a storage element, and a sensor attachment mechanism affixed to opposite edges of said biocontainer, disposed within said biocontainer and passing through the geometric center of said biocontainer, said sensor attachment mechanism comprising a sealed enclosure holding a wireless temperature sensor, said wireless temperature sensor positioned at or about the geometric center of said biocontainer, wherein said storage element is in communication with said temperature sensor;

filling said biocontainer to its volumetric capacity with said biopharmaceutical material;

placing said biocontainer in a cryofreezer, thereby to freeze said biopharmaceutical material contained therein;

using said sensor to monitor the temperature of said biopharmaceutical material at said geometric center;

storing data from said sensor in said storage element;

allowing said biopharmaceutical material to freeze;

providing a processing unit in communication with said temperature sensor, said indicator, and said storage element;

comparing, by said processing unit, temperature data from said wireless temperature sensor to predetermined values to determine whether, once frozen, said biopharmaceutical material was properly frozen;

actuating said indicator by said processing unit to indicate the result of said determination of whether said biopharmaceutical material was properly frozen.

Claim 2. The method of claim 1, further comprising:

providing a wireless transmitter in communication with said temperature sensor; and

transmitting data from said storage element via said wireless transmitter.

Claim 3. The method of claim 1, wherein comparing, by said processing unit, temperature data from said wireless temperature sensor to predetermined values comprises comparing data from said sensor to previous data from said sensor stored in said storage element.

Claim 4. The method of claim 1, wherein said biocontainer is held in place by a frame, carrier or other structure.

Claim 5. The method of claim 1, wherein comparing, by said processing unit, temperature data from said wireless temperature sensor to predetermined values comprises comparing data from said sensor to a reference temperature profile stored in said storage element.

Claim 6. The method of claim 1, wherein said indicator comprises a visual indicator.

Claim 7. The method of claim 6, wherein said indicator comprises an LED.

Claim ~~10~~8. The method of claim 1, wherein said indicator comprises an audio alarm.

Claim ~~11~~9. The method of claim 1, further comprising storing said determination of whether said biopharmaceutical material was properly frozen on said storage element.

Claim ~~12~~10. The method of claim 1, further comprising transmitting said determination of whether said biopharmaceutical material was properly frozen to an external device.

Claim ~~13~~11. The method of claim 1, further comprising sterilizing said biocontainer and said temperature sensor prior to receiving said biopharmaceutical material.

Claim ~~14~~12. The method of claim 1, further comprising receiving electromagnetic waves, converting said electromagnetic waves to electrical power, and operating said temperature sensor, said processing unit, and said storage element with said electrical power.