

Bluechiip® Cryo Cassette



PRODUCT NAME

Bluechiip® Cryo Cassette

GENERAL DESCRIPTION

Bluechiip® offers a passive chain-of-custody and identification solution for wireless tracking and management of cryogenic storage equipment such as samples, cassettes, racks, freezers and tanks in biobanks. The patented cassette product incorporates the Bluechiip® CryoTag™ technology enabling the identity and temperature history of the Bluechiip® cassette to be known throughout its operational use.

The Bluechiip® cassette overcomes fundamental problems with existing cassettes and in addition safe guards your samples against unwanted thermal excursions.

Bluechiip cassette offers the following benefits:

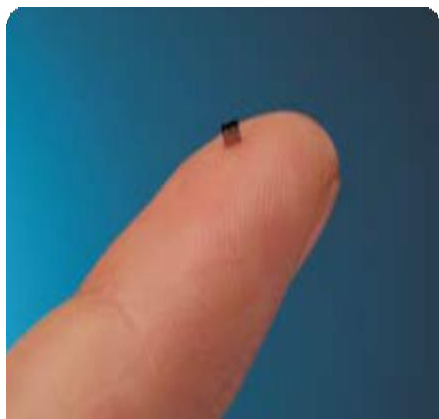
- A simple locking and opening mechanism
- Clear front for immediate identification of the sample
- Ribbed surfaces for ease of handling at cryogenic temperatures
- Each Bluechiip® cassette has an anti-slip locking mechanism to prevent a cassette from sliding out of a Bluechiip rack during handling of the rack
- Multiple colours are available for your own grouping or project purposes

The Bluechiip® cassettes have the following thermal performance properties:

- Up to 76% cooler compared to an aluminium cassette in the first 10 seconds following removal from a liquid nitrogen environment.
- Takes 73% longer for the internal air temperature to increase by 50°C preventing unwanted thermal excursions compared to aluminium cassettes.

As well as the above benefits, the Bluechiip® cassette and racks products together with the Matchbox™ reader and Stream™ software, offers the following tracking and chain of custody benefits for your biorepository:

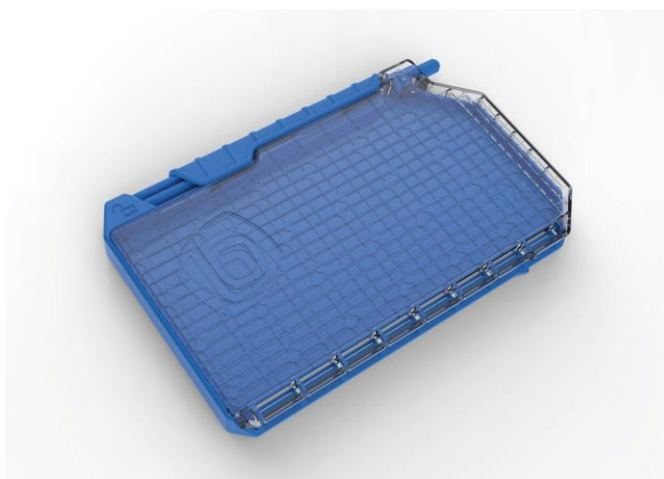
- Track ID of your racks and cassettes in a hierarchy using the Bluechiip® Stream™ software.
- Real time location and tracking of your cassettes and racks at the tank where it happens and matters.
- Temperature history of racks, cassettes and samples to deliver a complete chain-of-custody log.
- Ambient temperature monitoring.



The Bluechiip® cassette can be fitted with a Bluechiip® CryoTag. The Cryotag uses micro-electro-mechanical systems (MEMS), a relatively new technology that does not necessarily require electronic devices, transistors, capacitors etc., for operation. The tag communicates to the reader in the radio frequency spectrum but not the same way as typical RFID systems.

WHAT ARE MEMS?

MEMS bring together many diverse techniques to fabricate electronics, miniaturized sensors, actuators, as well as systems made up from these elements. It is primarily focused on the miniaturization of mechanical systems and the exploitation of the unique attributes of silicon in these miniature systems. Examples of other common MEMS devices include accelerometers used in air bag systems and hand held games. Other examples include inkjet printer heads and micro-mirrors used for digital projection displays.



PRODUCT NUMBERS AND ORDERING

The Bluechiip® CryoTag™ and cassette are constructed of medical grade polycarbonate.

Part Number	Bags Compatible	Dimensions	Colour
CAS-001B	50ml bags or less	160mm (L) 101mm (H) 13mm (W)	Blue
CAS-001R			Red
CAS-001Y			Yellow
CAS-001G			Green



APPLICATIONS

- Biobanks, bio-repositories and cryo-preservation facilities
- Cryogenic stored samples
- Stem cell storage
- Clinical trials
- Cell lines
- In Vitro Fertilization (IVF)
- General laboratory use
- Pharmaceuticals
- Blood products



HOW DO I KNOW IF AN ITEM HAS A BLUECHIIP®?

Look for this symbol:



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