Redefine quality
Drive productivity
Confidence in every sample
Bluechiip offers an advanced sample management solution

- A range of Bluechiip enabled consumables - Our cryo-safe, tamper-proof chip is embedded into vials, racks, storage equipment or retrofitted to existing containers
- Multiple reader formats – available in mobile, desktop, single and multi-sample for bulk reading
- Easy to use Sample Management Software - Bluechiip Stream™ keeps sample data accessible in one location
- Superior Service and Support across consumables, readers and software
Bluechiip understands that every one of your samples is critical. Managing them with optimal quality in the most efficient way is your objective. Bluechiip is the only solution that provides sample temperature with ID in cryogenic environments. To deliver confidence in every sample.

**Bluechiip - the next level in sample management**

Traditional tracking solutions are not keeping up with increased handling requirements of valuable samples. Bluechiip’s unique and patented chip technology is designed to operate across a wide temperature range from -196°C up to 150°C, creating the perfect system for managing sensitive samples.

Bluechiip Enabled Consumables, Readers and Software combine to provide an unparalleled ability to track and store sample level data, including temperature, across the cold chain process.

**Drives Productivity**
- Reducing manual processes and eliminating double witnessing
- Identifying multiple samples instantly through frost
- Simplifying inventory management for faster processing
- Driving efficiency at every step of the workflow

**Redefines Quality**
- Capturing ID and temperature at the sample level for cold chain integrity
- Reducing the risk of temperature excursions in cryogenic conditions
- Providing key workflow insights to drive continuous improvement
- Enabling compliance to industry standards and internal procedures
- Eliminating errors through advanced location control

Bluechiip delivers confidence in every sample
**Bluechip enabled workflow**

**Streamline collection and handling**
- Hassle-free data input in bulk - Streamline receiving processes with multi-sample readers and intuitive software
- Be certain about your sample ID - Bluechip® Enabled Consumables have a unique hard-coded ID
- Ensure chain of identity - Bluechip® products are compatible with barcodes and labels
- Automatically record thermal data when receiving samples
- Multi-site capable solution

**Simplify cryostorage**
- Readers and consumables operate in low temperature conditions minimizing temperature variations
- Maximise storage utilization by easily consolidating frozen samples and identifying free space
- Ensure samples are stored where they belong - Eliminate errors with Bluechip® Guided Storage™ tasks
- Automatic data upload with each read - Link bluechip® ID with instant temperature, time, technician, and storage location

**Guided retrieval™**
- Find your samples quickly - Eliminate paper picklists and double witnessing with Bluechip® Guided Retrieval™
- Retrieve frosted samples in bulk at the first go - Bluechip readers do not require a visual line of sight
- Reduce temperature excursions: Instant sample ID reads even at -196°C
- Confirm sample integrity during handling - Temperature check with ID

**Unparalleled quality assurance**
- Complete Audit Trail - View and report on sample history
- Standardise and de-risk sample handling and cryopreservation processes
- Supports compliance to industry and internal standards - CFR21, ISO20387, CAP, GMP, GTP
Our unique chip is a Micro Electromechanical System (MEMS) with ID and temperature sensing capabilities. It is a passive mechanical device not affected by frost or cryo temperatures unlike other labelling technologies like barcodes or typical RFID.

Bluechiip’s chips are designed:

• To perform in cryogenic environments at -196°C
• To have a unique, hard-coded and anti-clone ID
• To sense temperature
• To be resistant to ionizing sterilization and autoclaves

Bluechiip enabled technology

Resonating Micro Beams
Shifting with Temperature
Each chip is a unique micro electro mechanical system (MEMS) containing multiple cantilever beams of different lengths

Miniature Chip
The beams resonate at different frequencies which are translated to an ID. The frequency shift of the beams is directly related to their temperature

Billions of ID Combinations
Billions of unique ID combinations can be captured in this miniaturized chip

Partnership Opportunities

License our technology and finished products. Contact us for a custom development, OEM project or to become a distributor.