Automated Water-free Cell Thawing System

At present, the most common and widely accepted method for rapid thawing of frozen cell samples is to immerse the frozen tube in a 37 ℃ water bath for several minutes, and then judge whether the sample thawing is completed or not by observing the sample status in the cryogenic vials.

However, the use of water bath thawing has obvious disadvantages.

These disadvantages include:

(1) The possibility of contamination of biological samples in the cryogenic vial is very high;

(2) The water bath cannot be used as part of the sterile process;

(3) Different operators have great subjective differences in determining thawing time, final temperature and end point;

(4) Restrictions on the use of water bath in GMP or clinical environment;

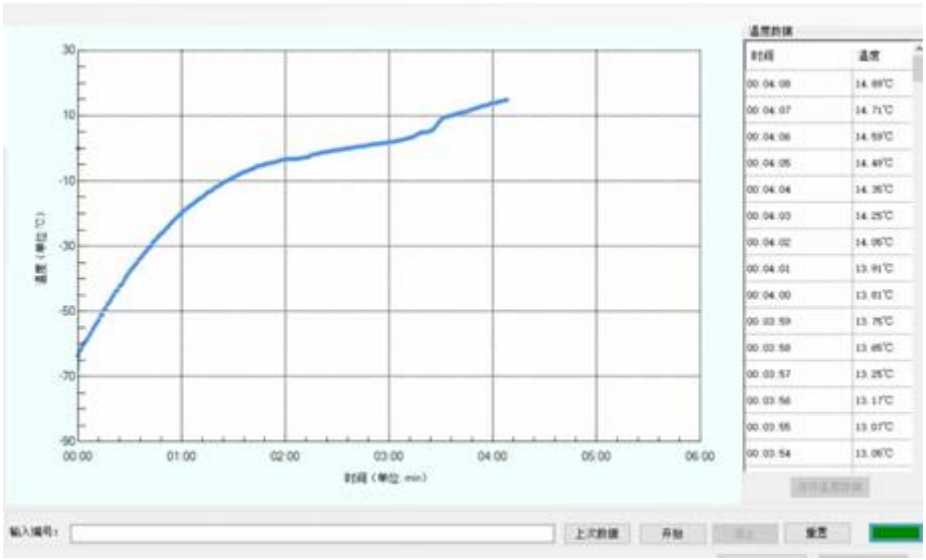
(5) Non-standard and non-intelligent operation, which cannot be integrated into automatic cell culture equipment.

The **EcCT-2.0 and EcCT-5.0 Automated Water-free Cell Thawing Systems** independently developed by our company have overcome the last obstacle in the process of low-temperature preservation, replaced the method of thawing cells in water bath, and avoided the problems caused by cell thawing in water bath.

Product Features

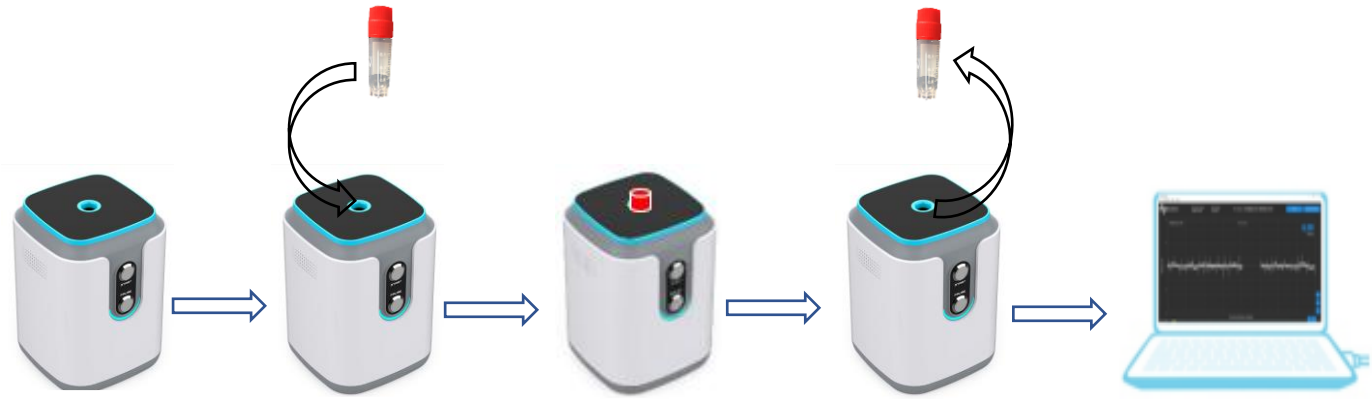
- **Safe** - eliminate the high pollution risk caused by water bath and ensure the safety of samples
- **User-friendly -** easy to operate, which can be controlled by software or buttons
- **Standardized** - built-in control procedures to achieve controllability and standardization of the cell thawing process and eliminate subjective judgments
- **Intelligent -** users can set thawing conditions by themselves and integrate the instrument into automatic cell culture equipment such as isolators
- **Wide applicability** - suitable for cryogenic vials stored under conditions such as liquid nitrogen, dry ice, and ultra-low temperature refrigerators
- **Real-time-** real-time recording of cell thawing temperature and real-time display of temperature curve
- **Traceable -** the software can automatically save a temperature curve, temperature data and other information, which can meet the requirements of cGMP

Powerful Software



- **Explore cell thawing parameters-** users can explore cell thawing parameters suitable for different samples according to actual needs
- **Rich data**——Collect the temperature of cryogenic vial in real time at the frequency of 1HZ, and display the temperature curve and data in real time
- **Administrator authority -** the software has administrator authority, under which operators can be added
- **Automatic saving file –** after thawing, temperature curve and data can be automatically saved as pdf and xls file named by sample code

Easy to operate



Self-inspection and preheating | **Put in a sample** | **Cell thawing** | **Thawing completed & Take out a sample** | **Data saving and printing**

Application area

Biobank, Stem cell, Antibody drug development, CGT, Vaccine, Life science, Medicine. etc

Parameters and ordering information

Model	EcCT-2.0	EcCT-5.0
Thawing temperature	37-50 ℃（Users can freely set it）	
Thawing time	3-4 min（The specific time is related to the set conditions and samples）	
Volume of cryogenic vial	1.5-2.0 ml	4.5-5.0 ml
Indicating signal	Lamp strip and buzzer	
Temperature acquisition frequency	1 HZ	
Temperature sensor	IR sensor	
Temperature accuracy	±0.5 ℃	
Sample protection mechanism	Emergency stop button; The heating module actively separates from the vial to prevent overheating	
Sample status after thawed	Ice-water mixture	
Extensibility	Integrated into automatic cell culture equipment	
Compatible with cryogenic vial brand	Corning, Theimofisher, Greiner, NUNC, Nalgene. etc	
Power	AC100-240V，90W	

Software	
Administrator authority	Yes
Temperature curve and data	Real-time display and automatic saving
Parameter setting	Yes
File information	Sample name, thawing time, temperature curve, temperature data, etc
Temperature curve saving format	Pdf
Data saving format	xls

Ordering information	
EcCT-2.0	Suitable for 1.5-2.0 ml cryogenic vials
EcCT-5.0	Suitable for 4.5-5.0 ml cryogenic vials
EcCT-MS	Software

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