

CRFT, Controlled rate freezer and thawer

DESCRIPTION

Liquid nitrogen and cryogen free controlled rate freeze and thaw system for cryopreservation - CRFT.

The CRFT brings accuracy, precision and reproducibility to biological cryopreservation. This unit is ideal for research into the cryopreservation of a wide range of material including embryos, stem cells, mammalian cells, spermatozoa, antibodies, tissue sections and rodent organs.

The freezing and thawing rate is precisely controlled, ensuring accuracy and reproducibility throughout the freezing and thawing profiles, especially for the important nucleation/seeding phase. This provides optimal recovery of cells on thawing. Operation is simple and can be carried out with or without a PC.

Applications

The CRFT is highly versatile and can be used for the cryopreservation research of a wide range of samples in cryovials, straws, bags, microplates and Matrix-96-well block plates in the following areas:

- Transgenic embryology research
- Stem cell research
- Clinical and research samples, e.g. lymphocytes and tissue cell lines in conventional cryovials
- Various mammalian cells including cardiomyocytes, adipose, liver and muscle
- Cord blood derived stem cells
- Adherent cells and stem cells in microplates
- Cell suspensions in numbered/barcoded arrays
- System integrations
- Suitable for applications in veterinarian IVF

Key features and benefits

- Accurate and reproducible control of cooling rates and sample temperatures
- A focus on maximising cell survival rates
- Controlled and customisable freezing and thawing
- Linear and non-linear freezing profiles
- Liquid nitrogen, alcohol and cryogen free – no need for 'topping up'
- Interchangeable heads for flexibility (ordered separately)
- Free of charge software allows you to design, track, export and report temperature profiles
- Easy to use and samples can be nucleated/seeded in-situ
- Low running costs: estimated at 1% of liquid nitrogen-controlled rate freezing and runs on a 24V supply
- Temperature range of -100°C to 30°C*
- Servicing and calibration options available
- Command protocols available

*Minimum head temperature achieved with sealed lid in place. Temperatures specified are applicable to CRFT head (sample temperatures may vary).

Biosan is the exclusive distributor of CRFT in NIS, Baltic and Eastern European countries.



CAT. NUMBER

CRFT EU	100-240VAC 50/60Hz, Euro plug
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