

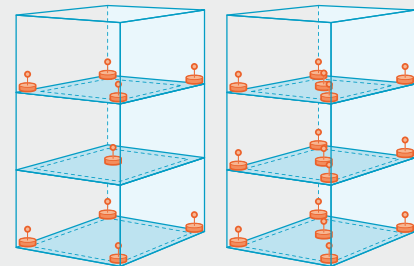
# Eppendorf ULT Freezer Temperature Mapping

Safeguard your precious samples and fulfil your compliance needs



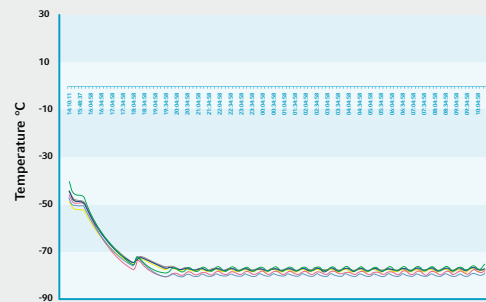
*“Research shows that on average the value of the contents inside a single ULT freezer is over \$150,000*

*“Many users indicate the value of their samples to actually be priceless as they are irreplaceable human, animal, or plant samples.”*



A probe holder system (9 and 15 probes) is used to ensure comparable results between different measurements and units

**Multi-temperature mapping with 9 probes inside a ULT upright freezer**



Example of a Multi-temperature Mapping with 9 probes inside a ULT upright freezer

ULT Freezer Temperature Mapping is a temperature verification service conducted by an external multi-channel temperature verification system. This service ensures reliable on-site temperature mapping of your ULT Freezer to provide peace of mind and security to your valuable samples.

The temperature mapping is carried out based on the recommendations of:

- a) Norms, Standards and Best Practices - ISPE Controlled Temperature Chamber Mapping and Monitoring, IEC 60068 - Environmental Testing, or
- b) Vaisala - 5 Rules of Sensor Placement in Validation/Mapping Applications using 9 or 15 temperature probes. Temperature mapping is recommended after installation, and subsequently every two years, or when repairs are made to the freezer.

Report of the following will be provided:

- > Minimum, maximum and average temperature of each location
- > Full log of raw data of each measurement
- > Temperature profile graphic for duration of measuring period
- > All relevant calibration certificates

Service	Order number
Temperature single point calibration	0082 070 280
9 + 1 Temperature Mapping study	0082 070 281
15 + 1 Temperature Mapping study	0082 070 282
Temperature Mapping – additional 24 hours	0082 070 283



Find out more on  
Eppendorf ULT  
Freezer epServices