



Laboratory service provider Propath uses ultralow temperature freezer with multi-stage security concept for sample storage

Particularly in the field of histology, samples must be able to be preserved for extended periods of time. In order to store its histological tissue samples under optimum conditions, British laboratory service provider Propath has put its trust in ultralow temperature freezers from BINDER.

Propath is one of Europe's leading laboratory service provider for histopathology and molecular pathology. Its focus is on the preclinical safety assessment of pharmaceuticals, chemicals, and medical products, as well as on supporting toxicology studies and assessing new therapeutic antibodies. The GLP-accredited laboratory service provider has over 30 years' experience in the area of regulatory and research studies. Its clients include companies from

the pharmaceuticals and biopharmaceuticals industries, chemical and agrochemical companies, research facilities, and organizations.

Work in the fight against diseases and cancers is the primary area where histopathology and molecular pathology play a central role. When it comes to diagnosing cancer in particular, histopathology is the method that is chosen above all other options. Both of these areas are the main focus in the diagnostic activities of a pathology institute.

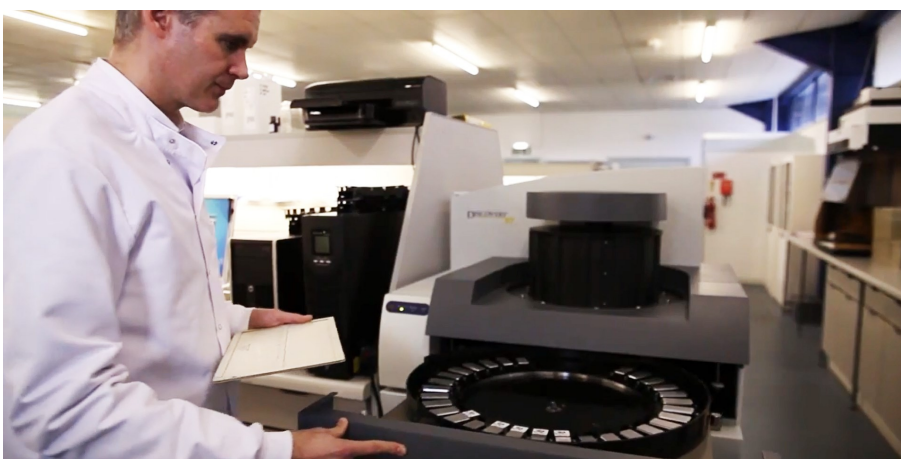
Tissue samples are generally provided in the form of biopsies or surgical specimens. The process involves staining tissue sections using special techniques and exami-

Requirements

- ▶ Secure positioning and storage of the samples at -80 °C
- ▶ Simple to operate
- ▶ Absolute equipment reliability with emergency service and security backup
- ▶ Protection against authorized access

BINDER Solution

- ▶ BINDER UF V 500 series ultralow temperature freezer for reliable long-term storage at -86 °C
- ▶ Electromechanical door lock can be opened by simply pushing a button
- ▶ Multi-stage security concept with emergency service and data storage
- ▶ Personalized access control via RFID technology prevents unauthorized access by third parties



▲ Stewart Jones, Director of Molecular Pathology analyzing human tissue samples

ning them microscopically. These histological sections often enable a highly accurate diagnosis to be made. For example, the technique is used to identify and classify tumor cells, as well as in the early detection of tumors. Current state-of-the-art methods allow histological diagnoses to be made from tiny sections of tissue.

Molecular pathology is the newest special discipline in pathology and is one of the key disciplines of modern diagnostics. The combined application of molecular biology and morphological investigation methods in cells and tissues enables highly specific information to be obtained on the type, causes, prognosis, and treatment of a wide range of diseases.

"Most importantly, the equipment has to be absolutely reliable and provide an emergency service with a security backup. That's why we opted for BINDER."

Stewart Jones, Director of Molecular Pathology

The focal point of Propath's research is the preclinical safety assessment of new agents and pharmaceuticals as well as on obtaining clear, high-quality statements and reproducible results.

All pathological processes require samples to be able to be kept for extended periods of time. These samples often



▲ Personalized access control via RFID

remain frozen for several weeks to several years at temperatures as low as -86 °C. The cooling system must therefore be 100 % reliable, as it would otherwise be impossible to carry out an informative overall analysis.

With this in mind, Propath has put its trust in the UF V ultralow temperature freezer from BINDER to analyze human tissue samples for its toxicology studies. "Good positioning and storage of the tissue samples in the freezer and a system that is simple to use is key when it comes to high-quality products," explains Stewart Jones, Director of Molecular Pathology at Propath. "But most importantly, the equipment has to be absolutely reliable and provide an emergency service with a security backup. That's why we opted for

BINDER." The equipment is based on a multi-stage security concept, which guarantees an extremely high standard of safety. Mr. Jones also added that the personalized access control via RFID was a decisive factor when it came to choosing equipment from BINDER. Thanks to this technology, the highly sensitive samples are protected against unauthorized access; only employees who have been accredited by the head of the laboratory are able to open the freezer using their code card.

A further important aspect for Propath was the fact that the system offered a data readout function. This enables temperature monitoring over extended periods of time and also provides comprehensive coverage with respect to data analysis.

Advantages

- ▶ Door can be opened simply by pushing a button
- ▶ RFID technology for personalized access with documentation via user protocol
- ▶ Temperature data logger with USB port
- ▶ 24/7/365 exchange service upon conclusion of a maintenance agreement

Areas of application

- ▶ Biotechnologie
- ▶ Pharmazeutische Industrie
- ▶ Kliniken-/ Universitätskliniken



▲ Ultra low temperature freezer
UF V 500

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