CROWN BIOSCIENCE

Biobank Services

A JSR Life Sciences Company

FACTSHEET

Introduction

For over 20 years, our biobanking sector has been firmly established and recognized for its unparalleled quality. We are globally recognized and trusted as setting the highest standard for biospecimen and clinical data collection. We offer a wide range of biobank products to support your research and development in personalized medicine, biomarker validation, drug discovery, and companion diagnostics.

A broad spectrum of systematic sample quality and clinical data is offered, featuring Multi-omics Grade and Standard Grade samples, catering to both the most stringent requirements and routine operations.

Quality Guarantee

Our Multi-omics Grade biospecimens are collected by our study nurses or trained personnel directly in the operating room, ensuring excellent sample quality with the lowest ischemia time possible. Our Standard Grade samples are sourced globally in accordance with company controlled processes. Quality assessment performed by our certified in-house pathologists guarantees that the risk factors often associated with tissue samples, such as poor tissue or block quality, insufficient tumor cell content, or high levels of necrosis, are reduced.

The ultimate quality of biospecimens is recognized, with a minimized usability failure rate of less than 1% for both Multi-omics Grade and Standard Grade biospecimens.

Our capability is to accelerate your time to market without having to compromise on quality and clinical data integrity.

Biospecimens' Main Application Scenarios

- Immuno-oncology solutions
- Biomarker discovery and validation
- Drug profiling

Multi-omics Grade Biospecimens

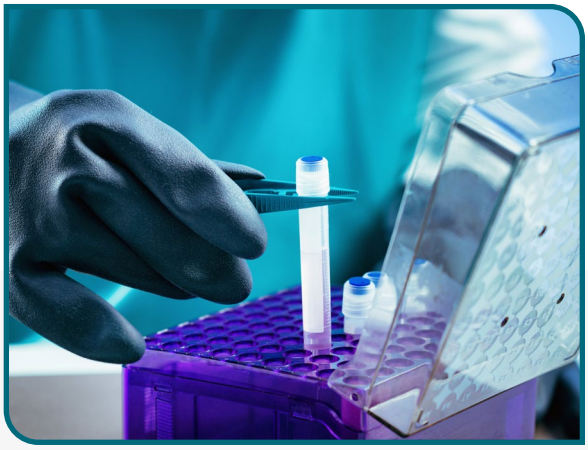
Multi-omics Grade samples enable you to excel in your research and development of personalized medicine along the value chain from target identification to drug discovery, and for biomarker exploration and validation.

Our Multi-omics Grade biospecimens capture the molecular reality and allow a holistic view of the tumor landscape of the patient's disease state. Our unique clinical network spans clinical sites across the globe, allowing for the highest level of biospecimen and data collection.

- Complete cancer biospecimen set, including matched normal adjacent tissue, plasma, serum, PBMCs, and urine
- Comprehensive clinical data
- Large biospecimen repository
- Custom prospective collections
- Lowest usability failure rate (<1%)
- Mean ischemia time of tissue approx. 10 min
- Preservation of the molecular and biological tumor profile
- Excellent data and sample quality
- Informed patient consent available
- Biomarker analyzed tissue for selected cancer entities (e.g. MSI, MSS, KRAS, BRAF, BRCA1/2, ALK, PDL-1, EGFR, ROS1, HER2, ER, PR, etc.)
- Mutation characterized samples (Illumina's AmpliSeq Focus Panel; 52 cancer-related genes) for breast cancer, colorectal cancer, ovarian cancer, stomach cancer, and lung cancer

Longitudinal Cell-Free Plasma (Liquid Biopsy)

In collaboration with a continuously expanding oncology practice network, our company has established a unique high-quality cell-free plasma biobank that is exclusively focused on collecting longitudinalplasma samples from cancer patients.



Our longitudinal plasma samples enable the isolation of circulating tumor DNA (ctDNA) from pre- and post-treatment plasma samples. This makes our plasma samples ideal for biomarker development, therapy monitoring, detection of early drug resistance, and better understanding of the drug's mechanism of action. Complete plasma sets per patient, including pre- and post-treatment samples are available.

- Comprehensive clinical data
- Numerous cancer entities
- Variety of therapies including checkpoint inhibitors, chemotherapy, and targeted therapy
- Collection in Streck Cell-Free DNA BCT® stabilizes cells, which lowers cfDNA background
- Complete patient consent for targeted genome analysis

Standard Grade Biospecimens

Along with our Multi-omics Grade biospecimens, we collect and offer Standard Grade biospecimens from our external sources according to customer demands. These samples are most suitable for high-throughput validation of diagnostic tests and platforms.

Standard Grade biospecimens are FFPE samples obtained from our biospecimen networks that can be used to study personalized medicine, drug and diagnostics development, or specifically perform high-throughput validation of diagnostic tests and platforms.

- Full range of cancer entities, including normal adjacent tissues, normal tissue, post mortem tissue
- Basic clinical data
- Biomarker and mutation status available for selected cohorts
- Quality control by in-house pathologists
- Informed patient consent available for selected cohorts

Biospecimen Features

Key feature	Multi-omics Grade	Standard Grade
	Molecular reality	High-throughput
Sample collection	Conducted by own highly trained study nurses and own performed quality control	Controlled quality by dedicated employees
Cold ischemia time	~10 minutes	Variable
Applications	Biomarker discovery Drug development Preclinical research	High-throughput validation of diagnostic tests and platforms

- Completely standardized ISO-certified protocols and processes
- Quality control by certified in-house pathologists
- Consultancy by our scientists to meet your needs

Get in touch

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