



Smarter Sample Management Solutions for Biobanks

Azenta Life Sciences offers a wide range of **sample management solutions** to assist biobanks **in the protection of sample integrity and security** while maintaining easy access to samples and **facilitating quick sample retrieval**.



Biopharmaceutical research

relies on high-quality biological samples to produce robust data, and so preserving sample quality and integrity is the key concern of every biobank. Plastic tubes are used in life science laboratories around the world to store samples. However, not all sample storage tubes are suitable for use in biobanks as some are produced from lower grade polymer containing bioactive compounds that can leach out, contaminate your samples, and interfere with experimental results. Furthermore, inadequate tube sealing can lead to sample evaporation or contamination.

Protecting sample integrity

starts with the right sample tube. Immortalizing your sample in a high-quality tube is essential. The FluidX range of **sample storage tubes** from Azenta Life Sciences have been designed and independently tested to be free of leachables and extractables. With dual and tri-coded options, FluidX automation-friendly tubes seamlessly integrate with Azenta



automated sample handling instruments including tube code reading systems, capper/decappers, and inventory management systems. The **IntelliXcap™ Capper/Decapper** provides optimal and consistent sealing of SBS racks in as little as 20 seconds. Biobanks can use these tools to create complete integrated workflows that minimize sample handling and maintain sample quality.

To enhance the speed and reproducibility of Biobank sample

selection and tracking of 2D coded tubes – Azenta Life Sciences also offers an **easy-to-use rack reader** that can quickly and accurately read and decode full 96-position racks of 2D-coded tubes in seconds. The **RITrack Mirage rack reader** from Azenta has changed the way that frozen Biobank samples stored in tubes can be managed. This was done by overcoming the problems of ice on the base of tubes and racks using novel RITrack radiofrequency with tagging that eliminates the frustration of racks and tubes that cannot be read due to excessive frosting. Using high-speed, web-based communications protocols – Azenta Life Sciences’ **advanced software** can run just one reader in your lab, or multiple readers connected over a local area network. Controlled directly from Wi-Fi connected smartphones, tablets, or laptops. Moreover, with integration into an inventory management system, such as FreezerPro, Biobankers can ensure samples are stored at the correct temperature and restrict sample access to registered users - maintaining a complete audit trail, chain of custody and chain of condition for all samples.

Biobanks require

complex infrastructure to protect sample integrity and security while maintaining easy sample access and facilitating quick retrieval and dispatch times. By implementing high-speed readers and automated sample handling instruments sample tracking and inventory management has become easier, faster, and more secure – helping Biobankers to mitigate risk and protect valuable samples through a robust and reliable workflow.

For further information

on the complete range of Azenta Life Sciences consumables and instruments for Biobanking sample management please visit <https://www.azenta.com/consumables-instruments>.

Azenta, Inc.

is a leading provider of life sciences solutions worldwide, enabling impactful breakthroughs and therapies to market faster. Azenta provides a full suite of reliable cold-chain sample management solutions and multiomics services across areas such as drug development, clinical research and advanced cell therapies for the industry's top pharmaceutical, biotech, academic and healthcare institutions globally. Our global team delivers and supports these products and services through our industry-leading brands, including GENEWIZ, FluidX, Ziath, 4titude, Limfinity, Freezer Pro, Barkey, and B Medical Systems. Azenta is headquartered in Burlington, MA, with operations in North America, Europe, and Asia. For more information, please visit www.azenta.com.



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