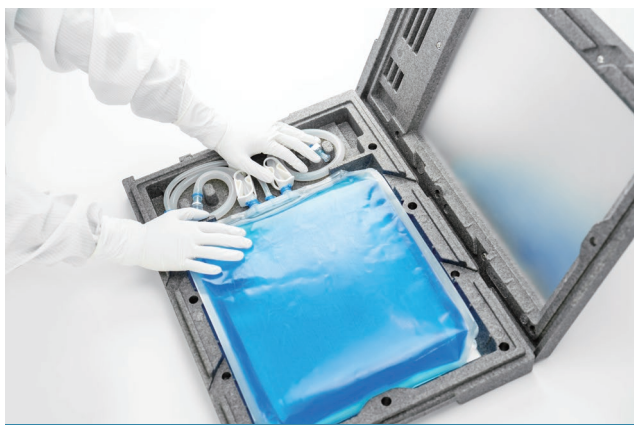


LeThenear[®] Freezing and Thawing Container & LeKrius[®] SU Freezing and Thawing Bags

Freeze thaw technology provides an effective long-term preservation for expensive biological bulk solution. It can effectively protect their structure and function, extending their stability and is widely used in biopharmaceutical processes.

LePure Biotech developed LeThenear[®] Freezing and Thawing Container and LeKrius[®] Single-use Freezing and Thawing Bag independently. The container and bag combination features an innovative protective design that ensures the safe preservation of stock solutions. Its flat, compact design excels in controlled freeze-thaw systems, enhancing efficiency while easily adapting to various scenarios, including ultra-low temperature freezers, cold storage, and more. The system is easy to operate, flexible, and user-friendly, ensuring a stable and uniform freeze-thaw process—hallmarks of LePure's freeze-thaw product series. When combined with a comprehensive freezing and thawing solution, it enables secure and reliable management of the entire cold chain.



Advantages

- Light weight and easy to operate, easy to use
- Stable and efficient, achieving uniform freeze-thaw cycles
- Realize stable and rapid freezing and thawing
- Flexible process, can be matched with various specifications of freeze-thaw bags
- Freeze-thaw bags are single use, reducing the risk of contamination
- The freeze-thaw container can be reused multiple times, reducing costs and increasing efficiency

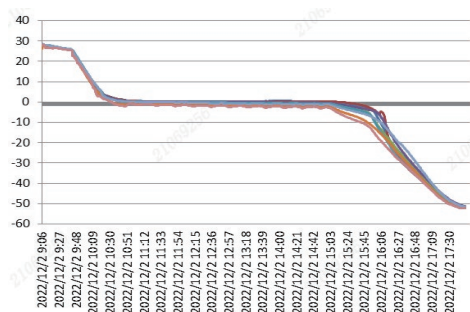
Typical applications

Effective solutions can be provided for each process step that requires freezing, storage and transportation:

- Freezing and thawing storage of intermediate products
- The stock solution of freezing and thawing
- Clinical stage experimental product freezing, thawing and storage

The Performance of Freezing-Thawing

The following picture shows the performance of LeThenear[®] Freeze-thaw GMP-compliant and LeKrius[®] Freeze-thaw bags in controllable freeze-thaw equipment. From the figure, it indicates that the LePure freeze-thaw series product has the characteristics of short freeze-thaw time and uniform freeze-thaw of each component. This can minimize the risk of protein damage during the freezing process.



Product Information

Product No.	Product description	Product inside demension (mm)	Product demention(mm)
JC008	8 L Freezing and Thawing Container	400×330×68	608×440×70.8
JC015	15 L Freezing and Thawing Container	672×330×68	880×440×71

Product Matrix

Flexible freeze-thaw (Ultra-low temperature refrigerator/Cold Storage)

Container	Bags	Bag Type	Recommended loading
JC008	LFT003-1AK	3D	2 L
JC008	LFT005-1AK	3D	3 L
JC008	LFT008-1AK	3D	5 L
JC015	LFT010-1AK	3D	8 L
JC015	LFT012-1AK	3D	10 L
JC015	LFT015-1AK	3D	12 L

Contact freeze thaw (Controllable freeze-thaw system)

Container	Bags	Bag Type	Recommended loading
JC008	LFT008-1AK	3D	6 L
JC015	LFT015-2AK	3D	13 L

Controllable freeze-thaw system

The freeze-thaw system developed by LePure and Haier, achieves rapid freeze-thaw in a fully automatic and controllable manner.

The freeze-thaw system is GMP-compliant and is suitable for the freeze-thaw work of liquids such as antibodies, cell/gene therapy, vaccines, blood products, etc. Integrating freezing and thawing processes, using controllable freeze-thaw methods can provide a controlled, repeatable, and powerful freeze-thaw environment for liquid biological products, especially intermediate biomolecules. The controllable freeze-thaw system can not only reduce the risk of microbial contamination, but also effectively extend the shelf life of products while ensuring product quality and stability.



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