

Product Name :
Cryogenic Freezer / Cryogenic Storage Freezer

Product Code :
NLAB-SCIENTIFICEQ35005



Description :

Cryogenic Freezer / Cryogenic Storage Freezer

Technical Specification :

CRYOGENIC FREEZER with temperature range -140oC to -155oC offer mechanical cryopreservation for long-term biological storage. Cryopreservation is the process where cells or whole tissues are preserved by cooling to sub-zero temperatures. The freezer also known as Cryogenic Storage Freezer. At low temperatures, any enzymatic or chemical activity which might cause damage to the material is effectively stopped. Liquefied gases, such as liquid nitrogen and liquid helium, are used in many cryogenic applications. Liquid nitrogen is most commonly used. Cryogenics is used in applications such as cord blood preservation and livestock breeding for the following materials:

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Examples include:

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semen cryopreservation

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Blood

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Stem cells. It is optimal in high concentration of synthetic serum, stepwise equilibration and slow cooling.

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Umbilical cord blood

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Tissue samples like tumors and histological cross sections

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Eggs (oocytes) in oocyte cryopreservation

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Embryos at cleavage stage (that are 2, 4 or 8 cells) or at blastocyst stage, in embryo cryopreservation

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Ovarian tissue in ovarian tissue cryopreservation

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Plant seeds or shoots may be cryopreserved for conservation purposes. Etc.

Naugralabequipments

Website: www.naugralabequipments.com, **Email:** sales@naugralabequipments.com

Address: 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India. **Phone:** +91-9896600003