

SINCE 1978



OPTICS TECHNOLOGY

Manufacturer & Exporters of : LABORATORY TESTING INSTRUMENTS



An ISO 9001:2008 CERTIFIED
An ISO 10002:2004 CERTIFIED

CE Certified

FREEZE DRYER(LYPHOLIZER)



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Freeze Drying is the process of removing the moisture from a biological product while maintaining the Integrity of the products biological & chemical structure and activities. Freeze Drying technology is used in particular for removal of moisture from the products usually of biological origin without causing any noticeable change in the original characteristics. Freeze Drying is also the preferred process in the field of Pharmacy, Chemistry and in conservation of food.

ADVANTAGE OF FREEZE DRYER:-

Heat-sensitive biological materials may be freeze-dried without affecting their potency. The dried materials may be stored for years at room temperature without loss of their original characteristics.

The freeze-dried material may be transported and shipped in small containers, and no provision is necessary for refrigeration en route.

Bacterial growth and enzyme action do not take place in freeze-dried products. Proteins do not coagulate.

Oxidation of many materials such as hemoglobin and vaccines is completely prevented when drying and sealing is done under high vacuum.

SAFE TEMPERATURE & DRYING TIMES FOR SELECTED MATERIALS

MATERIAL	SAFE TEMP.	CONDENSER TEMP.°C
MILK	-5	-40
UREA	-7	-40
BLOOD PLAZMA	-10 TO -25	-40
SERUM	-25	-40
VACCINE	-30 TO -40	-50
HUMAN TISSUE	-30 TO -40	-50
VEGETABLE TISSUE	-50	-70

Capacity

3 Ltrs With 6 port standard
5 Ltrs With 12 port standard

2/3, DSIDC, Community Works Centre, J-Block, Shakurpur, (Opp. Britannia Ind. Ltd.) Delhi-110034 (India)

Phone: 0091-11-27101383, 27184490, Fax: 0091-11-27108890

E-mail: info@opticstechnology.in, opticstechnology@gmail.com

Website: www.opticstechnology.in