

# **Thawing Systems: Global Markets**

https://marketpublishers.com/r/T720284B9CCFEN.html

Date: April 2023

Pages: 82

Price: US\$ 5,500.00 (Single User License)

ID: T720284B9CCFEN

## **Abstracts**

#### Report Scope:

The scope of this study entails the worldwide market for thawing systems. The report covers the entire market for thawing systems, which incorporates four sample types: blood, embryo and ovum, semen, and stem cells. Based on the end user, thawing systems are divided into blood bank and transfusion centers, hospitals and diagnostic centers, biotechnology and pharma companies, and research and academic institutes.

By geographical region, the market has been divided into North America, Europe, Asia-Pacific, and the Rest of the World. For market estimates, data has been provided for the year 2021 as the base year, with forecasts for 2022-2027. Estimated values are based on device manufacturers' total revenues. Projected and forecasted revenue values are in constant U.S. dollars, unadjusted for inflation.

## Report Includes:

25 tables

An overview of the global markets for thawing systems

Estimation of market size and analyses of global market trends, with data from 2019-2022, and projections of compound annual growth rates (CAGRs) through 2027

Coverage of history and principles of cryopreservation, and discussion on impact of cryopreservation and freeze-thawing on therapeutic properties

Assessment of the regulatory environment, healthcare policies, demographics,



and other factors that directly affect the thawing systems market

Discussion on the implications of thawing systems in the context of the current size and growth of the medical device market, and description of important technologies that supports thawing devices

Evaluation of key industry acquisitions and strategic alliances and market share analysis of the leading suppliers of the industry

Profiles of the key companies in the thawing systems market, including BioLife Solutions Inc., Cardinal Health, Sartorius, Cytiva Life Sciences, Boekel Scientific, FreMon Scientific Inc., and Helmer Scientific Inc.



## **Contents**

#### **CHAPTER 1 INTRODUCTION**

- 1.1 Study Goals and Objectives
- 1.2 Reasons for Doing This Study
- 1.3 Scope of Report
- 1.4 Information Sources
- 1.5 Methodology
- 1.6 Intended Audience
- 1.7 Geographic Breakdown
- 1.8 Analyst's Credentials
- 1.9 BCC Custom Research
- 1.10 Related BCC Research Reports

#### **CHAPTER 2 SUMMARY AND HIGHLIGHTS**

2.1 Market Size and Evolution

#### **CHAPTER 3 MARKET OVERVIEW**

- 3.1 History and Principles of Cryopreservation
  - 3.1.1 Principles of Cryopreservation
- 3.2 Impact of Cryopreservation and Freeze-Thawing on Therapeutic Properties
  - 3.2.1 Hematopoietic Stem and Progenitor Cells (HSPCs)
  - 3.2.2 Mesenchymal Stromal/Stem Cells (MSCs)
  - 3.2.3 Other Common Cellular Therapeutics
- 3.3 Guide to Cell Thawing
  - 3.3.1 Controlled Cooling for Stable Thawing
  - 3.3.2 Ice Formation During Cooling
  - 3.3.3 Post-Thaw Toxicity
- 3.4 Market Dynamics
  - 3.4.1 Market Drivers
  - 3.4.2 Market Restraints
  - 3.4.3 Opportunity
- 3.5 Impact of COVID-19 on the Thawing System Market

#### **CHAPTER 4 GLOBAL MARKET BREAKDOWN**



- 4.1 Overview
- 4.2 Global Market of Thawing Systems, by Sample Type
  - 4.2.1 Blood
  - 4.2.2 Stem Cell
  - 4.2.3 Embryo and Ovum
  - 4.2.4 Semen
- 4.3 Global Market of Thawing Systems, by End User
  - 4.3.1 Biotechnology and Pharma Companies
  - 4.3.2 Blood Banks and Transfusion Centers
  - 4.3.3 Hospitals and Diagnostic Centers
  - 4.3.4 Academic and Research Institutes

#### **CHAPTER 5 MARKET BREAKDOWN, BY REGION**

- 5.1 Introduction
- 5.2 North America
- 5.3 Europe
- 5.4 Asia-Pacific
- 5.5 Rest of the World

#### **CHAPTER 6 INDUSTRY TRENDS AND EMERGING TECHNOLOGIES**

- 6.1 Competitive Landscape
- 6.2 Emerging Technologies

#### **CHAPTER 7 COMPANY PROFILES**

ANTRAD MEDICAL AB

BIOLIFE SOLUTIONS INC.

BOEKEL SCIENTIFIC.

CARDINAL HEALTH

CYTIVA LIFE SCIENCES

FREMON SCIENTIFIC INC.

HELMER SCIENTIFIC INC.

KW SCIENTIFIC DEVICES SRL

SARSTEDT AG & CO.

**SARTORIUS** 

STERICOX INDIA PRIVATE LIMITED



## **List Of Tables**

#### LIST OF TABLES

Summary Table: Global Market for Thawing Systems, by Sample Type, Through 2027

Table 1: Commonly Used Cryoprotective Agents and Their Uses

Table 2: Cryochain Process Step Wise

Table 3: Global Cancer Statistics, 2020

Table 4: Global Market for Thawing Systems, Through 2027

Table 5: Global Market for Thawing Systems, by Sample Type, Through 2027

Table 6: Global Market for Blood Thawing Systems, by Region, Through 2027

Table 7: Global Market for Stem Cell Thawing Systems, by Region, Through 2027

Table 8: Global Market for Embryo and Ovum Thawing Systems, by Region, Through 2027

Table 9: Global Market for Semen Thawing Systems, by Region, Through 2027

Table 10: Global Market for Thawing Systems, by End User, Through 2027

Table 11: Global Market for Biotechnology and Pharma Companies in Thawing

Systems, by Region, Through 2027

Table 12: Global Market for Blood Banks and Transfusion Centers in Thawing Systems, by Region, Through 2027

Table 13: Global Market for Hospitals and Diagnostic Centers in Thawing Systems, by Region, Through 2027

Table 14: Global Market for Academic and Research Institutes in Thawing Systems, by Region, Through 2027

Table 15: Global Market for Thawing Systems, by Region, Through 2027

Table 16: North American Market for Thawing Systems, by Sample Type, Through 2027

Table 17: North American Market for Thawing Systems, by End User, Through 2027

Table 18: European Market for Thawing Systems, by Sample Type, Through 2027

Table 19: European Market for Thawing Systems, by End User, Through 2027

Table 20: Asia-Pacific Market for Thawing Systems, by Sample Type, Through 2027

Table 21: Asia-Pacific Market for Thawing Systems, by End User, Through 2027

Table 22: Rest of the World Market for Thawing Systems, by Sample Type, Through 2027

Table 23: Rest of the World Market for Thawing Systems, by End User, Through 2027

Table 24: Competitive Analysis: Thawing Systems Market, 2021



## **List Of Figures**

#### LIST OF FIGURES

Summary Figure A: Global Market Shares of Thawing Systems, by Sample Type, 2021 Summary Figure B: Growth Rate of North America, Europe, and Asia-Pacific Markets for Thawing Systems

Figure 1: Structure of Four Common Permeating Cryoprotectants

Figure 2: Impact of Cryopreservation and Freeze-Thawing on Clinical Cell Therapies

Figure 3: A Typical Cryochain

Figure 4: Schematic of Cells During Cooling, Thawing, and After Thaw

Figure 5: Global Market Shares of Thawing Systems, by Sample Type, 2021

Figure 6: Estimated Whole Blood Donations, by Region, 2017

Figure 7: Global Market for Blood Thawing Systems, 2019-2027

Figure 8: Global Market for Blood Thawing Systems, by Region, 2019-2027

Figure 9: Global Market for Stem Cell Thawing Systems, 2019-2027

Figure 10: Global Market for Stem Cell Thawing Systems, by Region, 2019-2027

Figure 11: Number of IVF Cycles Over Time, by Fresh and Frozen Embryos in the U.K., 1991-2019

Figure 12: Global Market for Embryo and Ovum Thawing Systems, 2019-2027

Figure 13: Global Market for Embryo and Ovum Thawing Systems, by Region, 2019-2027

Figure 14: Global Market for Semen Thawing Systems, 2019-2027

Figure 15: Global Market for Semen Thawing Systems, by Region, 2019-2027

Figure 16: Global Market Shares of Thawing Systems, by End User, 2021

Figure 17: Private Investment, Cell and Gene Therapy, 2014-2021

Figure 18: Global Market for Biotechnology and Pharma Companies in Thawing Systems, 2019-2027

Figure 19: Global Market for Biotechnology and Pharma Companies in Thawing Systems, by Region, 2019-2027

Figure 20: Global Market for Blood Banks and Transfusion Centers in Thawing Systems, 2019-2027

Figure 21: Global Market for Blood Banks and Transfusion Centers in Thawing Systems, by Region, 2019-2027

Figure 22: Global Market for Hospitals and Diagnostic Centers in Thawing Systems, 2019-2027

Figure 23: Global Market for Hospitals and Diagnostic Centers in Thawing Systems, by Region, 2019-2027

Figure 24: Global Market for Academic and Research Institutes in Thawing Systems,



#### 2019-2027

Figure 25: Global Market for Academic and Research Institutes in Thawing Systems, by Region, 2019-2027

Figure 26: Global Market for Thawing Systems, by Region, 2019-2027

Figure 27: Global Market Shares of Thawing Systems, by Region, 2021

Figure 28: BioLife Solutions Inc.: Annual Revenue, 2019-2021

Figure 29: BioLife Solutions Inc.: Revenue Shares, by Products and Services, 2021

Figure 30: Cardinal Health: Annual Revenue, 2019-2021

Figure 31: Cardinal Health: Revenue Share, by Business Segment, 2021

Figure 32: Cardinal Health: Revenue Share, by Region, 2021

Figure 33: Danaher Life Science Segment (including Cytiva): Annual Revenue,

2019-2021

Figure 34: Danaher Life Sciences Segment (Including Cytiva): Market Share, by

Region, 2021

Figure 35: Sartorius: Annual Revenue, 2019-2021

Figure 36: Sartorius: Market Share, by Region, 2021

Figure 37: Sartorius: Market Share, by Business Segment, 2021



#### I would like to order

Product name: Thawing Systems: Global Markets

Product link: <a href="https://marketpublishers.com/r/T720284B9CCFEN.html">https://marketpublishers.com/r/T720284B9CCFEN.html</a>

Price: US\$ 5,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

## **Payment**

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/T720284B9CCFEN.html">https://marketpublishers.com/r/T720284B9CCFEN.html</a>

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

& Conditions at https://marketpublishers.com/docs/terms.html

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms