

# **North America Blood Bags Market Segmented By Product (Single Blood Bag, Double Blood Bag, Triple Blood Bag, Quadruple Blood Bag, Penta Blood Bag), By Type (Collection Bag, Transfer Bag), By Volume (100ml, 150ml, 250ml, 300ml, 350ml, 400ml, 450ml, 500ml), By Material (PVC, PET, Others), By End-User (Hospitals, Clinics, Ambulatory Surgical Center, blood banks, Others), By Country, Competition Forecast & Opportunities, 2018-2028**

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## **Abstracts**

North America Blood Bags Market has valued at USD 93.94 million in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 6.63% through 2028. The North America Blood Bags Market is a vital segment of the broader healthcare industry, encompassing the production, distribution, and utilization of specialized bags designed for the collection, storage, and transfusion of blood and its components. This market plays a pivotal role in supporting various medical procedures and treatments, ranging from emergency trauma care to complex surgeries and ongoing therapies for chronic diseases.

The North America Blood Bags Market is characterized by the presence of several prominent players, including leading global manufacturers and regional suppliers. These companies are actively engaged in research and development to enhance the safety and efficiency of blood bags, thereby ensuring the highest standards of product quality.

Key Market Drivers

## Increase in Demand for Blood Transfusion

The rising demand for blood transfusion services is a key driver of the North America Blood Bags Market. Several factors contribute to this increasing demand:

Modern medical practices often require blood transfusions, particularly in surgeries, trauma cases, and treatments for various medical conditions. This demand is expected to continue to grow as medical technologies advance. The prevalence of chronic diseases such as cancer, cardiovascular diseases, and blood disorders has been steadily increasing among the North American population. Many of these patients require regular blood transfusions as part of their treatment protocols. Traumatic incidents, natural disasters, and accidents can lead to a sudden and urgent need for blood transfusions. Blood banks and hospitals must be well-prepared to meet these unpredictable demands.

## Growing Number of Blood Banks and Hospitals

The proliferation of blood banks and hospitals across North America is another significant driver for the Blood Bags Market. Here's why this trend is important:

The establishment of more blood banks and hospitals has increased the accessibility of blood transfusion services to a larger portion of the population. This accessibility ensures that patients in need can receive timely and life-saving transfusions. Blood banks are strategically located to serve different regions, ensuring a consistent and readily available blood supply. This geographical distribution is essential, especially in emergencies or during adverse weather conditions. Many hospitals and healthcare facilities now offer specialized medical treatments and surgeries that necessitate blood transfusions. This specialization has driven the need for blood bags and storage facilities within these institutions.

## Increase in Geriatric Population

The aging population in North America is a significant demographic driver impacting the Blood Bags Market:

As individuals age, they often require more medical attention, including surgeries and treatments that may require blood transfusions. The growing geriatric population contributes to the steady demand for blood bags. Certain blood-related conditions, such as anemia and blood cancers, become more prevalent with age. Managing these

conditions often involves regular transfusions, which directly contribute to the demand for blood bags. Older individuals are more likely to suffer from chronic illnesses that may necessitate blood transfusions. The aging population's higher healthcare utilization rate is expected to drive the consistent need for blood bags.

### Rising Awareness Regarding Blood Donation

Increased public awareness and education campaigns have played a crucial role in shaping the North America Blood Bags Market:

Public awareness initiatives have successfully promoted voluntary blood donation. This has not only reduced the reliance on paid donors but also contributed to a safer and more reliable blood supply, ultimately increasing the demand for blood bags. Efforts to destigmatize blood donation have made individuals more comfortable with the idea of donating blood. This cultural shift has encouraged more people to become regular donors, further driving the need for blood bags. Blood donation drives and community involvement have become more prevalent. These activities foster a sense of responsibility and community engagement, leading to increased donations and, consequently, a higher demand for blood bags.

The North America Blood Bags Market is heavily influenced by the increase in demand for blood transfusion services, the growing number of blood banks and hospitals, the rise in the geriatric population, and the rising awareness regarding blood donation. These drivers collectively shape the market, making it essential for manufacturers and healthcare institutions to meet the growing need for blood bags efficiently and sustainably.

### Key Market Challenges

#### Regulatory Compliance and Safety Standards

One of the most significant challenges facing the North America Blood Bags Market is the stringent regulatory environment and the constant need to uphold safety standards. Several factors contribute to this challenge:

Regulatory bodies, such as the FDA in the United States and Health Canada, have established strict guidelines governing the collection, processing, storage, and distribution of blood and blood products. Complying with these regulations can be complex and costly. Regulatory standards are subject to frequent updates and changes

in response to emerging infectious diseases and other safety concerns. Keeping up with these changes and implementing necessary modifications in blood bag manufacturing processes can be challenging for industry players. Ensuring the quality and safety of blood bags is paramount. Manufacturers must maintain rigorous quality control measures to prevent contamination, leakage, and other issues that could compromise the integrity of blood and blood products.

### Limited Shelf Life of Blood Bags

Blood bags have a limited shelf life due to the perishable nature of blood and blood components. This inherent limitation poses challenges to the industry:

Blood banks and healthcare institutions must carefully manage their blood bag inventories to minimize wastage due to expiration. Balancing the demand for blood products with the shelf life of the bags is a constant logistical challenge. Ensuring timely transportation and distribution of blood bags from manufacturing facilities to hospitals and blood banks across vast North American regions can be challenging. Delays in transit can result in expired products. The short shelf life of blood bags necessitates frequent production and disposal of expired bags, increasing operational costs for manufacturers and healthcare providers.

### Increasing Competition and Cost Pressures

As the demand for blood bags grows, so does the competition within the market. This competition, coupled with cost pressures, presents significant challenges:

With multiple manufacturers vying for market share, there is a risk of price wars that can lead to reduced profit margins. This can hinder investments in research and development for innovative blood bag technologies. External factors, such as the COVID-19 pandemic, have demonstrated the vulnerability of global supply chains. Supply chain disruptions can lead to delays in the production and distribution of blood bags, affecting the availability of critical blood transfusion services. Larger manufacturers may have advantages in terms of economies of scale, making it difficult for smaller companies to compete on pricing and innovation. This can limit the diversity of blood bag products available in the market.

### Key Market Trends

#### Advancements in Blood Bag Technology

One of the notable trends in the North America Blood Bags Market is the continuous advancement of blood bag technology. These innovations aim to enhance the safety, storage, and usability of blood bags. Key aspects of this trend include:

Traditional reusable blood bags are gradually being replaced by single-use, disposable blood bags. These bags reduce the risk of contamination and infection transmission, contributing to improved patient safety. Modern blood bags are equipped with integrated safety features, such as needleless ports and tamper-evident closures. These features minimize the risk of accidental needlestick injuries and ensure the integrity of the blood product. Innovations in blood bag materials and storage solutions have led to extended shelf lives for blood products. This allows for more flexibility in inventory management and reduces the risk of wastage due to product expiration.

#### Increasing Emphasis on Sustainability

Sustainability has become a significant trend in the North America Blood Bags Market, driven by environmental concerns and the need to reduce healthcare waste. Key aspects of this trend include:

Manufacturers are exploring the use of biodegradable materials for blood bags, reducing the environmental impact of disposal. Some blood bag manufacturers are implementing recycling programs to repurpose and reduce the waste generated by their products. Efforts to reduce the carbon footprint of blood bag production are on the rise. This includes more energy-efficient manufacturing processes and transportation methods.

#### Digitalization and Data Integration

The digitalization of healthcare and blood management has led to the integration of technology in the North America Blood Bags Market. Key aspects of this trend include:

Blood bags are increasingly equipped with barcodes and RFID (Radio-Frequency Identification) tags. This enables efficient tracking and traceability throughout the supply chain, reducing the risk of errors and ensuring product integrity. Hospitals and blood banks are adopting advanced inventory management software that integrates with blood bag tracking systems. This allows for real-time monitoring of blood bag inventory levels and expiration dates. Some healthcare institutions are using predictive analytics to forecast blood product demand, ensuring a more responsive and efficient supply

chain.

## Segmental Insights

### Product Insights

Based on the category of Product, the single blood bag segment emerged as the dominant player in the North America market for Blood Bags in 2022. Single blood bags are designed for one-time use, which significantly reduces the risk of contamination and infection transmission. This is of paramount importance in blood transfusion, where patient safety is a top priority. The single-use nature of these bags minimizes the chances of cross-contamination, needlestick injuries, and the spread of infectious diseases. Healthcare regulatory authorities in North America, such as the Food and Drug Administration (FDA) in the United States and Health Canada, have stringent guidelines in place to ensure the safety and quality of blood products. Single blood bags adhere more easily to these strict regulatory standards as they are used only once, eliminating concerns related to reusability, cleaning, and sterilization. The standardized nature of single blood bags simplifies compliance with regulatory requirements, making them the preferred choice for many healthcare institutions. Single blood bags are often equipped with barcode labels or RFID tags, allowing for efficient tracking and traceability throughout the blood supply chain. This technology ensures that each blood bag can be monitored from collection to transfusion, reducing the risk of errors, misplacements, or discrepancies. This level of traceability is crucial for maintaining accountability and transparency in blood transfusion processes. Single blood bags simplify inventory management for blood banks and hospitals. Since each bag is labeled with a unique identifier, tracking and managing inventory levels become more streamlined. This minimizes the risk of product expiration and wastage, ensuring a more efficient use of resources.

Additionally, single blood bags often have extended shelf lives compared to reusable bags. This is due to advancements in bag materials and storage solutions. Longer shelf lives provide greater flexibility in inventory management and help reduce the urgency of product usage, further enhancing their appeal to healthcare providers. These factors are expected to drive the growth of this segment.

### Type Insight

Based on the category of Type, the collection bag segment emerged as the dominant player in the North America market for Blood Bags in 2022. Collection bags are the



foundational component of the blood collection process. They are specifically designed to collect and store blood during the donation process. This crucial role makes them an indispensable part of the entire blood transfusion supply chain. Collection bags are available in various configurations to collect different blood components, including whole blood, red blood cells, plasma, and platelets. Their versatility allows healthcare institutions to cater to a wide range of patient needs efficiently.

**Whole Blood Collection Bags:** Designed for collecting and storing whole blood, which can be further processed into its various components.

**Red Blood Cell Collection Bags:** These are optimized for collecting and preserving red blood cells, which are commonly used in transfusions for anemia, surgery, and trauma patients.

**Plasma Collection Bags:** Plasma bags are specialized for collecting and storing plasma, which is vital for patients with clotting disorders and for producing clotting factor concentrates.

**Platelet Collection Bags:** Platelet bags are tailored for collecting and preserving platelets, essential for patients with bleeding disorders and those undergoing chemotherapy.

Collection bags adhere to stringent regulatory standards imposed by healthcare authorities in North America, such as the Food and Drug Administration (FDA) in the United States and Health Canada. Their design and materials are rigorously tested and approved to ensure the safety and quality of collected blood and blood components.

## Volume Insight

Based on the category of Volume, the 350ml segment emerged as the dominant player in the North America market for Blood Bags in 2022. The 350ml volume segment has become a standard in blood collection for a variety of reasons, contributing to its dominance:

**Efficient Blood Collection:** A volume of 350ml is considered an efficient and practical amount for blood donation. It allows for the collection of a sufficient volume of blood without causing excessive stress or discomfort to the donor.

**Consistent Donation Process:** Using a standardized volume simplifies the blood

collection process for healthcare professionals and donors alike. This consistency streamlines procedures and reduces the risk of errors.

The 350ml volume is well-suited for the separation of blood into its primary components: red blood cells, plasma, and platelets. This compatibility is crucial for efficient processing and transfusion:

**Red Blood Cells (RBCs):** A 350ml collection can be easily separated into red blood cells, which are commonly used in transfusions for patients with anemia, surgery, or trauma.

**Plasma:** Plasma, which plays a crucial role in clotting and immune function, can be efficiently extracted from a 350ml donation.

**Platelets:** Platelets, vital for clotting and often required by patients with bleeding disorders or undergoing chemotherapy, can also be derived from a 350ml donation.

## Material Insight

Based on the category of Material, the PVC (Polyvinyl chloride) segment emerged as the dominant player in the North America market for Blood Bags in 2022. PVC has become the dominant material in blood bag production due to its inherent safety and compatibility with blood and blood components:

PVC is biocompatible, meaning it does not react with blood or its components, ensuring the integrity of the collected blood and reducing the risk of contamination or adverse reactions when the blood is transfused into patients. PVC is inert and non-reactive, which is crucial for maintaining the quality and safety of stored blood and its components over time. PVC is widely recognized and accepted as a safe and suitable material for blood bags by healthcare regulatory authorities, ensuring compatibility with transfusion guidelines and requirements.

PVC is known for its durability and strength, making it well-suited for the demanding requirements of blood collection, storage, and transportation:

PVC bags are less prone to leakage, which is critical for preventing contamination and maintaining the safety and quality of collected blood. The robust nature of PVC bags ensures that they can withstand the rigors of handling and transportation, reducing the risk of damage to the blood bags and the blood components they contain.



PVC can be customized to meet the specific needs of blood collection and storage, contributing to its dominance:

PVC can be used to manufacture a wide variety of blood bag types, including whole blood bags, red blood cell bags, plasma bags, and platelet bags. This versatility allows healthcare institutions to cater to diverse patient requirements efficiently. PVC can be modified to accommodate the inclusion of additives and anticoagulants commonly used in blood collection. This ensures that the collected blood remains viable and suitable for transfusion.

### End-User Insights

The hospitals & clinics segment is projected to experience rapid growth during the forecast period. Hospitals and clinics play a central role in healthcare delivery, serving as primary points of care for patients. This centrality positions them as the primary consumers of blood bags in North America. Key aspects include:

Hospitals and clinics are hubs for a wide range of medical procedures and treatments, many of which require blood transfusions. These include surgeries, trauma care, cancer treatments, and treatments for blood disorders, among others. Hospitals are equipped to handle emergency medical situations, where rapid access to blood and blood components is critical. This includes accident victims, surgical emergencies, and childbirth complications.

Hospitals and clinics typically have a high patient throughput, leading to a consistent and substantial demand for blood and blood products: Due to their large patient populations, hospitals and clinics have an ongoing need for blood bags to meet daily medical requirements. This steady demand contributes to the dominance of this end-user segment. Hospitals and clinics are equipped with comprehensive blood transfusion services, making them well-prepared to handle various medical scenarios. Many hospitals have specialized units, such as oncology, cardiology, and surgery departments, where blood transfusions are common. These units require a steady supply of blood bags to meet patient needs. Hospitals often have dedicated transfusion committees and blood banks that oversee the safe and efficient use of blood products, ensuring that patients receive the appropriate transfusions. These factors collectively contribute to the growth of this segment.

### Regional Insights

United States emerged as the dominant player in the North America Blood Bags market in 2022, holding the largest market share in terms of value. The United States has a significantly larger population compared to other North American countries. This large population base translates into higher healthcare demands, including the need for blood transfusions. The country's extensive healthcare infrastructure, including numerous hospitals, clinics, and specialized treatment centers, further contributes to its dominance. The United States is known for its advanced medical practices and innovative treatments. This includes a wide range of medical procedures and therapies that often require blood transfusions. The demand for blood bags is high to support these cutting-edge medical services. The United States has well-established blood banking systems and regulatory frameworks that ensure the safe collection, storage, and distribution of blood and blood components. This reliability and safety contribute to a higher demand for blood bags. The U.S. is a leader in healthcare research and development. This innovation often leads to the development of new treatments and therapies that require blood transfusions, further boosting the demand for blood bags. The United States allocates substantial resources to its healthcare sector, including blood transfusion services. This financial commitment supports the procurement of blood bags and the maintenance of high-quality standards.

The Canada market is poised to be the fastest-growing market, offering lucrative growth opportunities for Blood Bags players during the forecast period. Factors such as Canada's population is growing steadily, and with an aging demographic, the demand for healthcare services, including blood transfusions, is increasing. Canadian healthcare institutions are continually adopting advanced medical technologies and treatments, leading to a rising demand for blood bags. Investments in healthcare infrastructure and blood banking systems are enhancing the efficiency and accessibility of blood transfusion services in Canada.

### Key Market Players

TERUMO CORPORATION

Fresenius SE & Co. KGaA

Grifols SA

Neomedic Limited

Teleflex Incorporated

JMS Co. Ltd

Kawasumi Laboratories Inc.

Report Scope:

In this report, the North America Blood Bags Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

**Blood Bags Market, By Product Type:**

Single Blood Bag

Double Blood Bag

Triple Blood Bag

Quadruple Blood Bag

Penta Blood Bag

**Blood Bags Market, By Type:**

Collection Bags

Transfer Bags

**Blood Bags Market, By Volume:**

100ml

150ml

250ml

300ml

350ml

400ml

450ml

500ml

#### Blood Bags Market, By Material:

PVC

PET

Others

#### Blood Bags Market, By End-User:

Hospitals & Clinics

Ambulatory Surgical Center

Blood banks

Others

#### Blood Bags Market, By Region:

United States

Canada

Mexico

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the North

*North America Blood Bags Market Segmented By Product (Single Blood Bag, Double Blood Bag, Triple Blood Bag, Qu...*

America Blood Bags Market.

Available Customizations:

North America Blood Bags market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### 1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Materials
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### 3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

### 4. VOICE OF CUSTOMER

### 5. NORTH AMERICA BLOOD BAGS MARKET OUTLOOK

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Product (Single Blood Bag, Double Blood Bag, Triple Blood Bag, Quadruple Blood Bag, Penta Blood Bag)
  - 5.2.2. By Type (Collection Bag, Transfer Bag)
  - 5.2.3. By Volume (100ml, 150ml, 250ml, 300ml, 350ml, 400ml, 450ml, 500ml)



- 5.2.4. By Material (PVC, PET, Others)
- 5.2.5. By End-User (Hospitals & Clinics, Ambulatory Surgical Center, blood banks, Others)
- 5.2.6. By Region
- 5.2.7. By Company (2022)
- 5.3. Market Map

## **6. UNITED STATES BLOOD BAGS MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Product
  - 6.2.2. By Type
  - 6.2.3. By Volume
  - 6.2.4. By Material
  - 6.2.5. By End-User

## **7. CANADA BLOOD BAGS MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Product
  - 7.2.2. By Type
  - 7.2.3. By Volume
  - 7.2.4. By Material
  - 7.2.5. By End-User

## **8. MEXICO BLOOD BAGS MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Product
  - 8.2.2. By Type
  - 8.2.3. By Volume
  - 8.2.4. By Material
  - 8.2.5. By End-User

## **9. MARKET DYNAMICS**

### 9.1. Drivers & Challenges

## **10. MARKET TRENDS & DEVELOPMENTS**

### 10.1. Recent Developments

### 10.2. Product Launches

### 10.3. Mergers & Acquisitions

## **11. NORTH AMERICA BLOOD BAGS MARKET: SWOT ANALYSIS**

## **12. COMPETITIVE LANDSCAPE**

### 12.1.1. TERUMO CORPORATION

### 12.1.2. Fresenius SE & Co. KGaA

### 12.1.3. Grifols SA

### 12.1.4. Neomedic Limited

### 12.1.5. Teleflex Incorporated

### 12.1.6. JMS Co. Ltd

### 12.1.7. Kawasumi Laboratories Inc.

## **13. STRATEGIC RECOMMENDATIONS**

## **14. ABOUT US & DISCLAIMER**

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