

# Single Blood Drop Analysis: Technologies and Global Market

<https://marketpublishers.com/r/S8F835A0C93EN.html>

Date: April 2018

Pages: 159

Price: US\$ 1,250.00 (Single User License)

ID: S8F835A0C93EN

## Abstracts

### REPORT SCOPE:

The scope of this study entails the current market for blood analyzers, especially the single blood drop analyzer. The report also includes regulatory aspects, current and developing technologies, market projections and market share. An analysis of patents, clinical trials, innovations and opportunities, as well as the latest trends are also discussed. The report intends to explain the key trends of blood analysis technologies. It discusses the market determinants that act as motivating and restraining factors and provides insights to stakeholders and potential entrants. The report will be a key decision-making tool for the intended audience which includes blood analysis equipment manufacturers, POC device manufacturers, biochemical sensor manufacturers, angel investors, potential entrants and so forth. This study contributes to the areas of market growth among single blood drop analyzers and related technology manufacturers. Genomic research centers, academic institutions, government and private laboratories, various hospital settings as well as pharmaceutical, diagnostic and biotechnology companies and physicians will find this study to be of interest.

In order to provide a better understanding of the market, the report is divided into segments based on applications, technology, end user, and geography. The technologies segment includes blood collection, blood analyzers, and consumable technologies; the applications section includes diagnostic testing for various diseases such as cancer, diabetes, cardiovascular, viral or bacterial infection, fertility, and allergy. Additionally, the report also focuses on patient monitoring and drug response monitoring. The report provides regional insight of leading market segments. Geographically, the global market is divided into North America, Europe, Asia-Pacific (APAC), and Rest of World. Further, the country-level market is analyzed according to

its geographical region.

The report provides useful information to all the market players, potential entrants, government agencies and other interested parties. As the report also covers various geographic regions in detail, companies interested in expanding their geographic reach will also find the report useful.

## **REPORT INCLUDES:**

61 tables

An overview of the global market for single blood drop analysis and its technologies

Analyses of global market trends, with data from 2016, 2017, and projections of compound annual growth rates (CAGRs) through 2022

Description of market trends and blood analysis tests and technologies

Market breakdown by blood collection technologies, end use, application, and by region

Discussion of new technologies in the market, and a patent analysis

A look into key suppliers' and manufacturers' positioning and strategies

Comprehensive company profiles of key players in the market, including Blusense Diagnostics, Koninklijke Philips, Siemens Healthcare, Toray Industries Inc., Abionic Sa, and 1drop Diagnostics

## **SUMMARY**

The global single blood drop analysis market is expected to increase at a compound annual growth rate (CAGR) of REDACTED% and reach nearly \$REDACTED billion during the 10-year forecast period of 2017 through 2027. Technological advancements are the major driving force for this market. Single blood drop analysis provides quality results which are similar to conventional lab testing. Single blood drop analysis is highly popular in POC devices especially among diabetes patients for diagnosis and

monitoring of blood glucose. A number of leading players such as Bayer, Abbott, Alere, Siemens, Koninklijke Philips

Philips, and Becton Dickinson (BD) are already performing well in the diabetes care market. In the current market scenario, single blood drop analysis is not limited to diabetes testing and monitoring. A variety of tests can be performed on a single drop of blood. For example, i-STAT, a POC designed by Abbott can perform 26 tests by analyzing chemistries, electrolytes, hematology and blood gasses from single blood drop. Similarly, Toray Industries Inc. developed a test which can detect 13 types of cancers from a single blood drop. Cepheid, a Danaher company, developed a test which offers quantitative and qualitative assays for HIV, hepatitis C and Ebola by using three to four drops of blood. Karius Inc. developed a test that can identify 1,250 microbes (bacteria, viruses, fungi, protozoa) from a single drop of blood.

Presently, single blood drop tests are becoming more popular and attracting investors. In 2016, Genalyte, a startup engaged in single blood drop analysis, received \$REDACTED million in funding. Additionally, 1Drop Diagnostics received several investments from 2015 to 2017. During 2015, it received \$REDACTED and in 2016, it received another \$REDACTED from an undeclared source. With its testing kits, 1Drop facilitates the early detection, prevention and management of disease, thus enabling individuals to live better lives. Theranos, once a popular and pioneering company in this market, received overall funding of around \$800 million. However, the company did not perform well in the market and failed. The failure of Theranos did not affect the growth of the market and many new players, mainly startups such as Genalyte, Nueon Inc., 1Drop Diagnostics, GRAIL, Graphene Frontiers, Karius Inc., and Seventh Sense Biosystems have entered the market since. Apart from these new entrants, some well-established players such as Abbott, Philips, BD, Bayer, Roche, Siemens Healthcare, Danaher, and Alere are actively participating in the market to bring new technologies.

## Contents

### CHAPTER 1 INTRODUCTION

Study Goals and Objectives  
Reasons for Doing This Study  
Scope of Report  
Information Sources  
Methodology  
Geographic Breakdown  
Analyst's Credentials  
Related BCC Research Reports

### CHAPTER 2 SUMMARY AND HIGHLIGHTS

### CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND

Description of Market Trends  
An Overview of Chemical and Biosensors  
Chemical Sensors  
Biosensors  
Market Potential  
Blood Analysis Testing and Technologies  
Nucleic Acid Test  
ELISA  
Rapid Tests  
Next Generation Sequencing  
Western Blot Assay  
Blood Analysis by Application  
Key Favorable Factors in the Single Blood Drop Analysis Market: Increasing Prevalence of Diseases  
Diagnosis of Multiple Diseases by Single-Drop Blood Testing  
Disease Outbreaks  
Funding and Aid  
Cost Effectiveness  
Advantage Over Conventional Methods  
Rising New Method and Technology  
Key Factors Hindering the Market Growth  
Lack of Awareness

Less Accurate Methods  
Rules and Regulations  
Opportunity Analysis  
Research and Development  
Technology Advancements  
Emerging Markets (Remote Areas)

## **CHAPTER 4 MARKET BREAKDOWN BY TECHNOLOGY**

Blood Collection Technologies  
Finger Prick  
Capillary Puncture Method  
Intravenous Blood Collection  
Blood Analyzers  
Point of Care Blood Analyzers  
Lab-Based Blood Analyzers  
Consumables  
Reagents and Assays  
Disposable Kits

## **CHAPTER 5 MARKET BREAKDOWN BY APPLICATION**

Diagnosis  
Cancer  
Diabetes  
Cardiology  
Viral Bacterial Infections  
Pregnancy Detection  
Allergies  
Patient Monitoring  
Motivators  
Drug Response

## **CHAPTER 6 MARKET BREAKDOWN BY END USER**

Hospitals  
Clinics  
Individuals  
Labs and Pathologies

R&D Organizations

## **CHAPTER 7 MARKET BREAKDOWN BY REGION**

North America

Key Drivers

The U.S.

Canada

Asia-Pacific

Key Drivers

India

China

Japan

Europe

Key Drivers

The U.K.

Germany

France

Spain

Italy

Rest of World

Latin America

MENA

## **CHAPTER 8 PATENT REVIEW/ COMPETITIVE LANDSCAPE**

Competitive Landscape

Patent Analysis

## **CHAPTER 9 COMPANY PROFILES**

### **1DROP DIAGNOSTICS**

ABBOTT

ABIONIC SA

ALERE

APOLLO MEDICAL DEVICES LLC

APOLLODX LLC

AVALUN SAS

BAYER AG  
BECTON, DICKINSON AND COMPANY  
BLUSENSE DIAGNOSTICS  
CEPHEID  
DNA e Group Holdings Ltd  
EUROLYSER DIAGNOSTICA GMBH  
GENALYTE INC.  
GENTEEL LLC  
GRAPHENE FRONTIERS  
HICOMP MICROTECH CO. LTD.  
HOME ACCESS HEALTH CORP.  
HOWARD HUGHES MEDICAL INSTITUTE  
I-CALQ LLC  
IDEXX BIORESEARCH  
INFORMED DATA SYSTEMS INC.  
JANA CARE INC.  
KARIUS INC.  
KONINKLIJKE PHILIPS ELECTRONICS N.V.  
LIFESCAN  
MAGARRAY INC.  
MEDTRONIC PLC  
NEOTERYX LLC  
NOWDIAGNOSTICS  
ORPHIDIA INC.  
PIXCELL MEDICAL  
PRENOSIS INC.  
ROCHE DIAGNOSTICS  
SEVENTH SENSE BIOSYSTEMS  
SIEMENS HEALTHCARE  
TELOMERE DIAGNOSTICS INC.  
THERANOS  
THRIVA LTD  
TORAY INDUSTRIES INC.  
VELANO VASCULAR INC.  
ZEPTO LIFE TECHNOLOGY LLC

## **CHAPTER 10 APPENDIX PUBLISHED PATENTS**

## List Of Tables

### LIST OF TABLES

Summary Table: Global Market for Single Blood Drop Analysis, by Application, Through 2027

Table 1: Advantages and Disadvantages of Chemical Fibrosensors

Table 2: Advantages and Limitations of Noninvasive Blood Gas Monitoring Sensor

Table 3: Characteristics of Microorganism-Based Sensors

Table 4: Several Microbial Sensors and Its Description

Table 5: Applications of Biosensor in Healthcare

Table 6: Results Seen with Lyme Disease Antibody Tests

Table 7: Point of Care Diagnostic Devices

Table 8: Global Diabetes Prevalence, 2014

Table 9: Product Range of Cholesterol Blood Test

Table 10: Commercialized CGM Sensors

Table 11: Physicians Per 1,000 Population, 2011-2014

Table 12: Glucose Concentrations for Precision Evaluations

Table 13: Tuberculosis (TB) Cases by Incidence and Mortality, by Region, 2016

Table 14: Global Market for Single Blood Drop Analysis by Technology, Through 2027

Table 15: Global Market for Single-Blood Drop Analysis by Blood Collection Technology, Through 2027

Table 16: Finger Prick Method Versus Venous Blood Samples

Table 17: Global Market for Single Blood Drop Analysis for Blood Analyzer Technology, by Type, Through 2027

Table 18: Global Market for Single Blood Drop Analysis for Consumables, by Type, Through 2027

Table 19: Prices of Some Blood Glucose Monitoring Test Strips, 2017

Table 20: Global Market for Single Blood Drop Analysis, by Application, Through 2027

Table 21: Global Market for Single Blood Drop Analysis for Diagnosis, by Type, Through 2027

Table 22: Global Market for Single Blood Drop Analysis for Cancer, by Region, Through 2027

Table 23: Global Market for Single Blood Drop Analysis for Diabetes, by Region, Through 2027

Table 24: Global Market for Single Blood Drop Analysis for Cardiology, by Region, Through 2027

Table 25: Global Market for Single Blood Drop Analysis for Viral/Bacterial Infections, by Region, Through 2027



Table 26: Global Market for Single Blood Drop Analysis for Pregnancy Detection, by Region, Through 2027

Table 27: Global Market for Single Blood Drop Analysis for Allergies, by Region, Through 2027

Table 28: Global Market for Single Blood Drop Analysis for Patient Monitoring, by Region, Through 2027

Table 29: Global Market for Single Blood Drop Analysis for Drug Response, by Region, Through 2027

Table 30: Global Market for Single Blood Drop Analysis by End User, Through 2027

Table 31: Global Market for Single Blood Drop Analysis for Hospitals, by Region, Through 2027

Table 32: Global Market for Single Blood Drop Analysis for Clinics, by Region, Through 2027

Table 33: Global Market for Single Blood Drop Analysis for Individuals, by Region, Through 2027

Table 34: Global Market for Single Blood Drop Analysis for Lab and Pathologies, by Region, Through 2027

Table 35: Global Market for Single Blood Drop Analysis for R&D Organizations, by Region, Through 2027

Table 36: Global Market for Single Blood Drop Analysis, by Region, Through 2027

Table 37: North American Market for Single Blood Drop Analysis, by Application, Through 2027

Table 38: North American Market for Single Blood Drop Analysis, by End User, Through 2027

Table 39: North American Market for Single Blood Drop Analysis, by Technology, Through 2027

Table 40: North American Market for Single Blood Drop Analysis, by Country, Through 2027

Table 41: Key Statistics of Diabetes Prevalence in Canada

Table 42: APAC Market for Single Blood Drop Analysis, by Application, Through 2027

Table 43: APAC Market for Single Blood Drop Analysis, by End User, Through 2027

Table 44: APAC Market for Single Blood Drop Analysis, by Technology, Through 2027

Table 45: APAC Market for Single Blood Drop Analysis, by Country, Through 2027

Table 46: European Market for Single Blood Drop Analysis, by Application, Through 2027

Table 47: European Market for Single Blood Drop Analysis, by End User, Through 2027

Table 48: European Market for Single Blood Drop Analysis, by Technology, Through 2027

Table 49: European Market for Single Blood Drop Analysis, by Country, Through 2027

Table 50: Number of People Diagnosed with Diabetes in the Adult Population,2016

Table 51: Rest of the World Market for Single Blood Drop Analysis, by Application, Through 2027

Table 52: Rest of the World Market for Single Blood Drop Analysis, by End User, Through 2027

Table 53: Rest of the World Market for Single Blood Drop Analysis, by Technology, Through 2027

Table 54: Rest of the World Market for Single Blood Drop Analysis, by Country, Through 2027

Table 55: Key Acquisitions in the Single Blood Drop Analysis Technology Industry

Table 56: Approved Products for the Single Blood Drop Analysis Technology Industry

Table 57: Partnership and Collaboration in the Single Blood Drop Analysis Technology Industry

Table 58: Patent for Single Blood Drop Analysis, by Technology

Table 59: Patent for Single Blood Drop Analysis, by Assignee

Table 60: Patents for Single Blood Drop Analysis, by Patent Office

Table 61: List of Published Patents, Jan 2015-Nov 2017

## List Of Figures

### LIST OF FIGURES

Summary Figure: Global Market for Single Blood Drop Analysis, by Application, Through 2027

Figure 1: Chemical Sensors Contain Two Basic Functional Units

Figure 2: Types of Biosensors Used in the Biomedical Element Recognition Process

Figure 3: Global Instance of HIV, 2016

Figure 4: Global Prevalence and Treatment of HIV, 2013-2016

Figure 5: Cumulative Prevalence of Zika Virus (Until May 2017)

Figure 6: Rural Population, 2016

Figure 7: Point of Care Diagnostics as an Integrated Process

Figure 8: Market motivators for the POCT devices

Figure 9: Estimated Age-adjusted Prevalence of Diagnosed Diabetes by Race/Ethnicity and Sex Among Adults Aged ≥18 Years, the U.S., 2013–2015

Figure 10: Japanese Cancer Prevalence Rate (Both Male and Female), 2010-2015 (per 100,000 people)

### COMPANIES MENTIONED

1DROP DIAGNOSTICS

ABBOTT

ABIONIC SA

ALERE

APOLLO MEDICAL DEVICES LLC

APOLLODX LLC

AVALUN SAS

BAYER AG

BECTON, DICKINSON AND COMPANY

BLUSENSE DIAGNOSTICS

CEPHEID

DNA e Group Holdings Ltd

EUROLYSER DIAGNOSTICA GMBH

GENALYTE INC.

GENTEEL LLC

GRAPHENE FRONTIERS

HICOMP MICROTECH CO. LTD.

HOME ACCESS HEALTH CORP.

HOWARD HUGHES MEDICAL INSTITUTE  
I-CALQ LLC  
IDEXX BIORESEARCH  
INFORMED DATA SYSTEMS INC.  
JANA CARE INC.  
KARIUS INC.  
KONINKLIJKE PHILIPS ELECTRONICS N.V.  
LIFESCAN  
MAGARRAY INC.  
MEDTRONIC PLC  
NEOTERYX LLC  
NOWDIAGNOSTICS  
ORPHIDIA INC.  
PIXCELL MEDICAL  
PRENOSIS INC.  
ROCHE DIAGNOSTICS  
SEVENTH SENSE BIOSYSTEMS  
SIEMENS HEALTHCARE  
TELOMERE DIAGNOSTICS INC.  
THERANOS  
THRIVA LTD  
TORAY INDUSTRIES INC.  
VELANO VASCULAR INC.  
ZEPTO LIFE TECHNOLOGY LLC

## I would like to order

Product name: Single Blood Drop Analysis: Technologies and Global Market

Product link: <https://marketpublishers.com/r/S8F835A0C93EN.html>

Price: US\$ 1,250.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S8F835A0C93EN.html>

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

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

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