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# DIAGNOSTICS: COLLECTION TO DETECTION

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Results that matter.





# LEADING THE WAY IN DIAGNOSTIC SOLUTIONS



Diagnostics is the dynamic, growing industry that relies on faster and more accurate results to improve clinical outcomes, increase operational efficiencies and reduce overall cost. POREX® provides an extensive media selection that delivers a one-stop "Collection to Detection" solution for today's demanding diagnostic applications.

- **The POREX® Complete Solution** - from the time the sample is collected, to the time the sample is analyzed, POREX® materials play a vital role in sample collection, transport, preparation, and analysis/results.
- **The POREX® Material Array** – includes innovative products and OEM advanced porous PE materials, microporous PTFE, porous polymeric fiber, polyurethane foam, porous glass fiber membrane, porous composites, proprietary coatings, and functionalized and bio-activated porous media.



POREX® Collection to Detection materials help in accurate diagnosis, crucial for both rapid and ongoing disease management. POREX® ease-of-use materials offer unique designs and customizable features that maintain the quality standards required for accurate results.





## Collection

- Lateral flow assays
- Infectious disease methodologies
- In vitro diagnostics
- Microfluidics
- Drugs-of-abuse
- Pregnancy and ovulation testing
- Hormone detection

## FUNCTIONALITY



Wick



Absorb



Filter

## TECHNOLOGIES



Porous Plastic



Fiber



Foam

## FUNCTIONALITY



Wick



Absorb



Filter

## TECHNOLOGIES



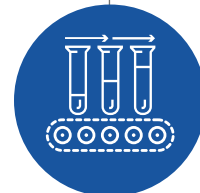
Porous Plastic



Fiber

## Transport

- Clinical and life sciences
- Pharmaceuticals
- Veterinary diagnostics
- In vitro diagnostics
- Molecular and PCR methodologies
- Research testing
- Clinical trials



## Sample Collection

The first step in an accurate diagnosis is sample collection. POREX® collection media offers ideal capillary structure for sample collection with customization in wicking and absorption properties for controlled delivery of samples. A proprietary color change technology allows for methodology assurance. Collection media is optimized to enhance surface energy and increase recovery of analytes, reduce viscosity and minimize non-specific binding, thus reducing potential contamination.

### Applications:

- Lateral flow assays
- Infectious disease methodologies
- IVD
- Microfluidics
- Drugs-of-abuse
- Pregnancy and ovulation testing
- Hormone detection

## Sample Transport

### Matrix Sampling Technology

POREX® unique material structures allow the porous matrix to collect, transport, store, and release sample upon demand – all in one single component. This patented technology enables accurate and precise sample collection, eliminates increased costs associated with transportation and biohazard shipping, and helps increase efficiency in the lab. The technology can also be customized for low-to-high throughput formats.



## Preparation

- Clinical and life sciences
- Veterinary diagnostics
- In vitro diagnostics
- Molecular and PCR methodologies
- Whole blood filtration

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Vent

### TECHNOLOGIES



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Fiber



Foam

## Analysis

- Microfluidic and molecular diagnostics
- Lateral flow assays
- Infectious disease and other IVD tests



## Sample Preparation

To get quick and reliable results, the sample must be properly prepared – a process that can be complicated and time-consuming. POREX® offers FDA class I and class II disposable devices designed to reduce instrument downtime and provide an all-in-one sample preparation system.

### FILTER SAMPLER® Blood Serum Filters

Separates serum or plasma from centrifuged whole blood specimens, eliminates gel separation particulates and fibrin in the sample, and allows direct access to a sample versus secondary container pour-off.

### POREX SQ-EASY®

A self-contained, positive closure, sample preparation system. POREX SQ-EASY® collects, filters, transfers and stores buffers, serum, plasma, urine, stool, blood, saliva, and other liquids or viscous bodily fluids and tissues.

#### Applications:

- Veterinary diagnostics
- IVD
- Molecular and PCR methodologies
- Whole blood filtration

## Sample Analysis/Results

Microfluidics, lab-on-a-chip, molecular diagnostics, and POC applications rely on the use of highly specialized, pure materials and media. POREX® products are designed to enhance sample filtration, absorption, particulate capture, de-bubbling, venting, fluid metering, separation, and more.

### POREX® Microfluidic Media and Filters

These are smart, enabling materials that provide critical functionality in micro device applications. POREX® Microfluidic Media and Filters are robust, certified non-leachable and extractable, easy to handle, and can be device inserted using common techniques like press fitting, heat staking and ultrasonic welding.

#### Applications:

- Microfluidic and molecular diagnostics
- Lateral flow assays
- Infectious disease and other IVD tests



## BENEFITS OF POREX® DIAGNOSTIC SOLUTIONS

### Sample integrity

- One-stop-shop for all diagnostic material needs
- Smart enabling technology that provides critical functionality
- Accurate, precise and rapid diagnosis
- Patented unique technology

### Reliable supply

- Global company with dedicated local support
- Redundant global manufacturing and tooling capability
- Global quality management systems in compliance with FDA requirements and ISO9001 quality standards
- Clean room manufacturing capabilities

### Economic outcomes

- Improved operational efficiencies
- Improved patient outcome while reducing cost

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