ePlex™

Gastrointestinal Pathogen Panel (GI)
- Bacterial, viral, and parasitic targets associated with gastrointestinal infections from a stool sample

HCV Genotyping Panel (HCVg)
- Typing and subtyping of HCV 1a, 1b, 2a/c, 2b, 3, 4, 5, and 6 from plasma or serum

Central Nervous System Panel (CNS)
- Bacterial, viral, and fungal targets associated with central nervous system infections from a cerebrospinal fluid sample

Fungal Pathogen Panel (FP)
- Fungal targets associated with bloodstream infections from positive blood culture

Sample-to-Answer
Multiplex Molecular Diagnostics

Product in Development
GenMark is committed to providing patient-focused solutions to aid in the diagnosis of disease and the selection and dosing of therapies. Utilizing eSensor® detection technology, the ePlex™ sample-to-answer system is being designed to support a broad range of molecular diagnostic panels.

**eSensor® Detection**
- Proprietary electrochemical detection technology
- Multiplexing with high sensitivity and specificity
- Eliminates the need for routine instrument maintenance and calibration

**Sample-to-Answer Solution**
- Single use, self-contained cartridge
- Fully integrates nucleic acid extraction, amplification, and detection
- No user-added reagents

**Electrowetting Technology**
- Proprietary electronic fluid movement technology
- Enables rapid thermal cycling for fast turnaround time
Excellent Sensitivity and Specificity Demonstrated in Independent Studies

<table>
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<th>Author</th>
<th>Comparator Method</th>
<th>eSensor® XT-8 Performance</th>
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<tr>
<td>Popowitch¹</td>
<td>Molecular Multiplex Tests</td>
<td>99.6% Overall Sensitivity*</td>
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<tr>
<td>Pierce²</td>
<td>PCR</td>
<td>99.2% Agreement</td>
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*GenMark’s eSensor XT-8 RVP is designed to detect only Rhinovirus. The data presented is based on the removal of three Enterovirus specimens.

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Random and Continuous Access
Run any assay, any time

Fast Turnaround
Sample to result in 60-90 minutes

Scalable Configuration & Throughput

Flexible Design
1 to 4 towers to address testing capacity requirements

Bi-directional LIS Interface
Download test orders and upload results

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Comprehensive Multiplex Panels*
Solutions to aid diagnosis and accelerate treatment decisions

**Respiratory Pathogen Panel (RP)**
- >20 viral and bacterial targets associated with respiratory infections from a nasopharyngeal swab

**Blood Culture Identification**
- **Gram-Positive Panel (BCID-GP)**
  - >20 bacterial and resistance targets associated with bloodstream infections from positive blood culture

- **Gram-Negative Panel (BCID-GN)**
  - >25 bacterial and resistance targets associated with bloodstream infections from positive blood culture

**Gastrointestinal Pathogen Panel (GI)**
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**HCV Genotyping Panel (HCVg)**
- Typing and subtyping of HCV 1a, 1b, 2a/c, 2b, 3, 4, 5, and 6 from plasma or serum

**Central Nervous System Panel (CNS)**
- Bacterial, viral, and fungal targets associated with central nervous system infections from a cerebrospinal fluid sample

**Fungal Pathogen Panel (FP)**
- Fungal targets associated with bloodstream infections from positive blood culture

To learn more about the ePlex™ system, contact us at info@genmarkdx.com.