

BioCode® MDx-3000



Cost-effective, high throughput multiplex system based on the Breakthrough Barcoded Magnetic Bead Technology

The BioCode® MDx-3000* is a high throughput, automated, digital, molecular, multiplex diagnostic system based on patented Barcoded Magnetic Bead (BMB) Technology. The BioCode® MDx-3000 system provides solutions for a variety of infectious disease testing that is ideal for moderate to high volume testing laboratories.

SYSTEM HIGHLIGHTS:

- Simple system design improves laboratory workflow
- Scalable throughput of up to 188 patient samples in an 8-hr shift
- Simultaneous testing of up to 3 different panels on a single run
- Data Masking option enables select target reporting based on clinician's order

SMART SYSTEM ARCHITECTURE:

- User Defined Mode supports the use of Laboratory Developed Tests
- Automated Post-run decontamination to reduce potential contamination

AVAILABLE MENU:

- 17-Plex Gastrointestinal Pathogen Panel**
- 17-Plex Respiratory Pathogen Panel**
- 4-Plex CoV-2 Flu Plus Assay (EUA)***
- SARS-CoV-2 Assay***

WORKFLOW



STEP 1

Automated DNA/RNA extraction.



STEP 2

PCR setup.



STEP 3

The MDx-3000 System automates the PCR amplification, hybridization/target capture and detection/result reporting process.

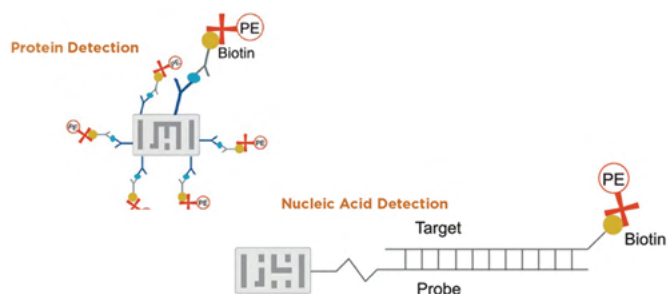


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Barcoded Magnetic Bead Technology

APPLICATION AND TECHNOLOGY



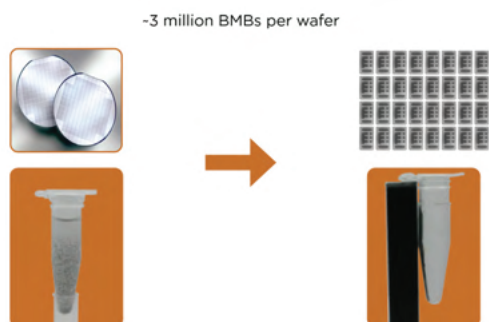
- Barcodes identify specific target bound on the probes
- Digitally barcoded magnetic beads are highly stable and demonstrate minimal, non-specific binding characteristics

SIZE AND SCALE



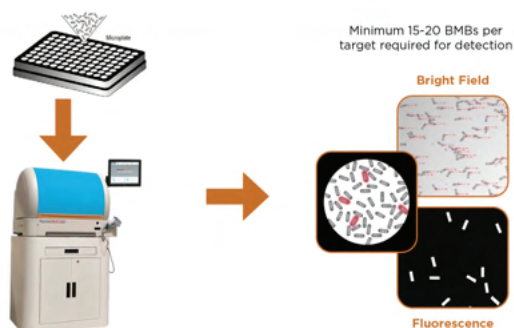
- Fabricated micro-scale digital barcodes
- 1000X smaller than commonly used barcodes: USPS, supermarkets
- Digitally barcoded magnetic beads are highly stable and demonstrate minimal, non-specific binding characteristics in biological assays

COMPOSITION AND FABRICATION



- Magnetic property enables target capture and wash

OPTICAL IMAGING AND DETECTION



- Bright field and fluorescence Images are overlaid for data compilation and output for each target
- Fluorescence signal above cutoff is indicative of presence of a target DNA/RNA in sample

* FDA Cleared

**FDA 510(k)

***This product has not been FDA cleared or approved; the assay has been authorized for emergency use by FDA under an Emergency Use Authorization (EUA) for use by CLIA certified laboratories.



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