

Sero^x

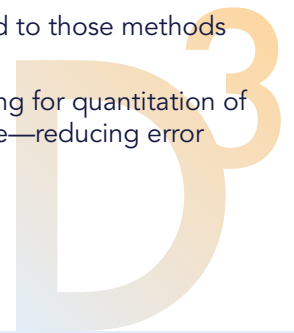


SALMONELLA QUANTITATION AND SEROTYPE DETECTION IN A RAPID, SINGLE, COST-EFFECTIVE TEST—WITHOUT THE NEED FOR ENRICHMENT

PathogenDx, innovators of the D³ (Dynamic Dimensional Detection) Array™ technology, now supports poultry producers with breakthrough molecular testing that combines Salmonella quantitation and Serotype detection in a single multiplexed assay with results in a single shift.

Compared to current Serology, qPCR or NGS methods, Sero^x delivers a higher overall ROI for poultry producers.

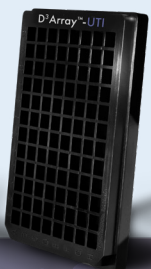
1. **Faster turnaround time** of results within a single shift (1 Day Vs. >6 Days)
2. **Lower testing cost** with 1 assay compared to those methods requiring 2 or 3 assays
3. **Better statistical accuracy** with N=6 testing for quantitation of Salmonella and detection of each serotype—reducing error bars for improved accuracy.
4. **Lowers cost** of holding poultry
5. **Longer shelf life** of product



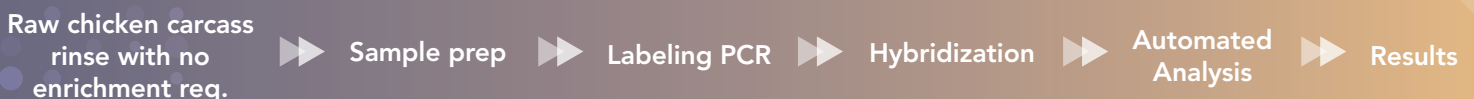
PathogenDx assays include our patented D³ Array™ comprising of multiple probes with N=6 replication including positive and negative control probes in a single well, to deliver a new and innovative approach to multiplexed molecular testing. Amplified DNA binding is enabled easily in the 3D cross-linked array architecture. This results in a more flexible, faster, and lower cost test than qPCR or NGS technology.

ADVANCED MOLECULAR DELIVERING FOR USDA FSIS PROPOSED TARGETS

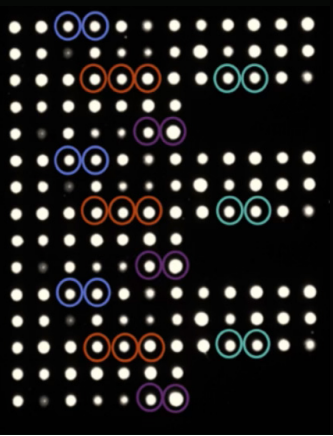
Salmonella spp.
S. enteritidis
S. typhimurium
S. 14,[5],12:1:- (monophasic typhimurium)
S. hadar
S. muenchen



SERO^x ASSAY EFFICIENT LAB WORKFLOW



Sero^x



With a system of probes in each array well, PathogenDx's highly-multiplexed innovation delivers Salmonella quantitation and simultaneously detects Serotypes without the need for enrichment. **Faster results, less holding product for days.**

Rapidly quantify Salmonella and simultaneously detect Serotypes

NEW EFFICIENCIES & ROI FOR POULTRY PATHOGEN TESTING

From food testing to human diagnostics, the D³ (Dynamic Dimensional Detection) Array™ delivers both the accuracy required to promote public health and the business efficiencies laboratories need to better support the food processing workflow.

With PathogenDx, labs operate at the speed of business, efficiently meeting testing regulations and minimizing re-testing and reducing economic loss. In addition, our assays are easily performed with standard equipment available in most labs

ABOUT PATHOGENDx

PathogenDx is a biotechnology innovator based in Tucson, Arizona, developing diagnostic solutions to address viral, bacterial and fungal infection or contamination. We've reinvented molecular testing to identify pathogens faster and easier, driving greater safety and business optimization. We deliver next-gen arrays for better health and safety—empowering the future of safe.

KEY FEATURES

- Sero-specific gene detection with no enrichment
- Easier and simpler workflow to get to a faster result
- Identify Salmonella and its Serotypes in a single shift
- Lowest cost per sample compared to sequence & antisera-based serotyping methods
- Built-In replication of N=6 for for Salmonella Spp. and Serotypes while reducing error bars for improved accuracy.
- End-Point PCR Amplification for higher sensitivity
- Room temperature Hybridization for better specificity
- Built-in positive and negative controls in each well
- Optional automated PCR Prep and Hybridization/Wash
- Sero^x is "Future-Proofed" for today's USDA FSIS regulations as well as tomorrow's added serotypes all in one test.
- Overall best-in-class industry value from a cost, turnaround time, throughput, workflow and accuracy standpoint



To learn more about Sero^x,
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 **PathogenDx**