

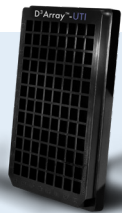
Sero^X



DETECTION OF SALMONELLA AND SEROTYPES IN A RAPID, SINGLE, COST-EFFECTIVE TEST.

PathogenDx, innovators of the D³ (Dynamic Dimensional Detection) Array™ technology, now supports poultry producers with breakthrough molecular testing that combines detection of Salmonella and Serotypes all 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.



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.

1. Faster turn-around time of results within a single shift vs 5 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 per salmonella and serotype target
4. Lowers cost of holding poultry
5. Longer Shelf life of product

SERO-SPECIFIC SALMONELLA DETECTION IN A SINGLE SHIFT

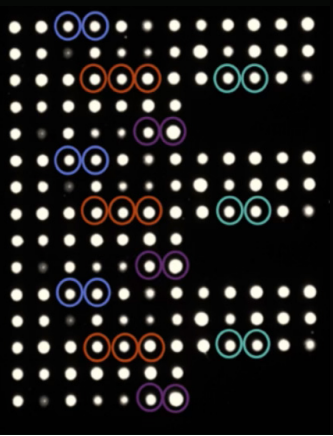
Salmonella spp
S. enteritidis
S. typhimurium
S. 14,[5],12:1:- (monophasic typhimurium)
S. hadar
S. muenchen

SERO^X ASSAY EFFICIENT LAB WORKFLOW

Primary enrichment ►► Sample prep ►► Labeling PCR ►► Hybridization ►► Automated Analysis ►► Results



Sero^X



With a system of probes in each array well, PathogenDx's highly-multiplexed innovation detects Salmonella and simultaneously determines select Serotypes. Faster results, less holding product for days.

Rapidly detect Salmonella and simultaneously determine select Serotypes

NEXT GEN 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 from primary 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 each Salmonella spp and each Serotype for Accuracy and Confidence of Result

End-Point PCR Amplification for higher sensitivity

Room-temperature Hybridization

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,
CALL: 800-641-5751
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 **PathogenDx**