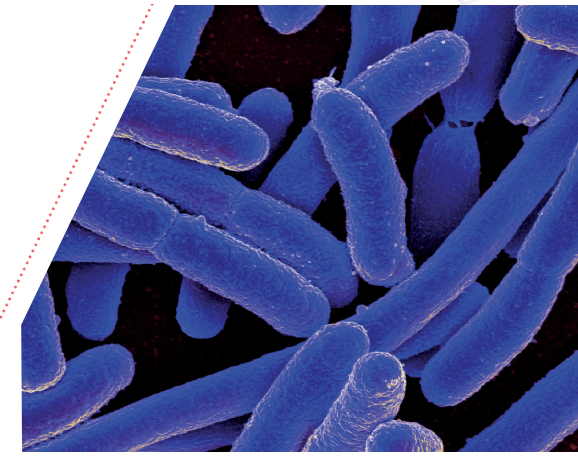
Microbiology Testing: Speed vs. Accuracy? Dyad Labs Offers Both

Validated Five-Panel Rapid Microbiology Testing Now Available at our ISO Accredited Lab

Many analytical labs offer accelerated microbiology testing, but not all of them are using validated methods to achieve the time-saving results. Don't let your testing fall short of FDA requirements. It's important to understand the difference between a truly validated testing method, and merely "shortened" method.

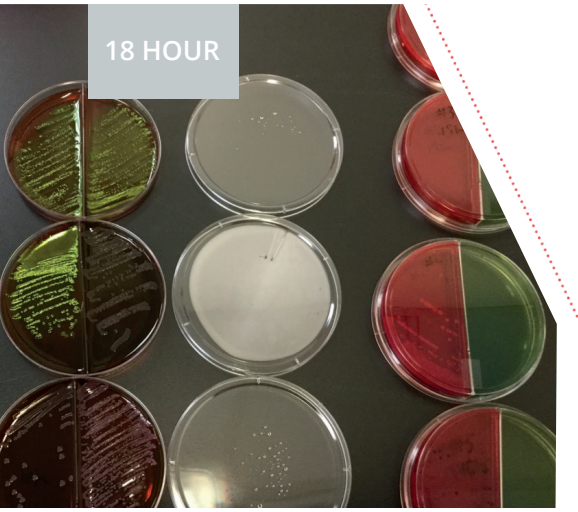
The existing USP methods for screening for microbiological pathogens were designed as a multi-step process to detect pathogens in a variety of product types and environments.

Our new Rapid Micro Screening is designed for the nutritional products / supplement industry and has been validated to provide faster test results for both e-coli and salmonella screens.



Colorized electron micrograph of Escherichia coli

Is Your Lab's Accelerated Micro Testing Method Validated?



Verified Culture Results in 18 Hours

HOW DOES IT WORK?

Existing methods seek first to detect a whole host of microorganisms, and then once those cultures present, to work on identifying which 'bad bugs" are present. By focusing on these two most common pathogens (e-colli and salmonella right from the beginning), we can boost our screening efforts significantly through a targeted approach. We use plate media designed specifically to culture these two bugs. And we are seeing results in half the time. Identification is now possible in 18-24 hours, a reduction of almost 50% from the existing methods.

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Not Just Faster Screening. More Targeted Screenings

THE METHOD

The current USP 2022 method for detection of Salmonella utilizes a non-selective primary enrichment in Trypticase Soy Broth for 18 -24 hrs followed by a selective secondary enrichment in Rappaport-Vassiliadis Broth for 18 – 24 hrs. The selective enrichment is streaked onto Hektoen Enteric and Xylose-Lysine-desoxycholate agars, both selective agars for recovery of isolates if present. Incubation is 24 - 48 hrs. The modified protocol utilizes a non-selective enrichment in Lactose Broth for 18 - 24 hrs. This is followed by streaking the enrichment onto Hektoen Enteric and Xylose-Lysine-desoxycholate agars for 18 – 24 hrs.

Full 5-Panel Rapid Micro Screening — THREE DAYS — Now Available at Dyad Labs

Reduced Incubation Time from 24–48 hours to 18-24 hours

Comparison of Existing USP Method to Dyad Method

Method	Primary Enrichment	Secondary Enrichment	Selective Plating	Secondary Confirmation	Minimum screening time
USP E. coli	TSB 18-24 hours	MacConkey Broth 24-48 hours	MacConkey Agar 18-24 hours	EMB 18-24 hours	60 hours
Dyad E. coli	Lactose Broth 18-24 hours		EMB 18-24 hours		36 hours
USP Salmonella	TSB 18-24 hours	RVS 18-24 hours	HE/XLD 24-48 hours	TSI/LIA 24048 hours	60 hours
Dyad Salmonella	Lactose Broth 18-24 hours		HE/XLD 18-24 hours		36 hours

If your lab or company could benefit from shorter TAT in these tests, talk to your Dyad Labs representative today

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