

SPECIFICATIONS: FLUXERGY TEST KIT

ENVIRONMENTAL SALMONELLA

Background: Salmonella is a leading cause of enterocolitis in susceptible horses. Clinical cases range from asymptomatic to acute and severe diarrhea to death. Further, it is possible for disease outbreaks and population epidemics to occur depending on the organism, host and degree of exposure. It is also possible for subclinical shedders to endanger the health of hospitalized patients and clinical personnel. It is thus recommended that PCR be used for rapid and specific pathogen detection to maintain biosecurity. Microbiological culture is typically used in tandem as standard of care due to only small concentrations of Salmonella spp. commonly being present. This Fluxergy assay targets a conserved gene responsible for invasion of epithelial cells by all pathogenic strains of Salmonella. Fluxergy further offers a 12-hour incubation buffer that can be used with the Fluxergy Salmonella spp. assay to ensure absence or presence of pathogen.







Reduce Central Lab Fees and Logistics



Get Fast, Accurate Results that can Improve Decision Making



Stall-side care



Minimal hands-on time per sample

Assay Specifications			
Test Type	RT-PCR, Direct		
Time to Result	~1 hour		
Sample Preparation	16 hours for enrichment, ~3 min from reagent thaw*		
Sample Type	Environmental Swab		
Compatible Enrichments	Selenite Cystein Broth		
Required Sample Volume	14μL of Selenite Cystein Broth		
Gene Targets	Salmonella Spp. InvA		
LOD	1 CFU/mL Post 16-hour Enrichment		

Reader Compatibility

Fluxergy Analyzer



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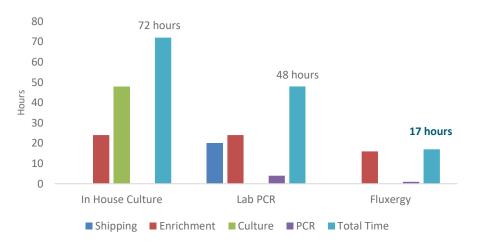
Why is Biosecurity Important?

- Salmonella is a zoonotic organism
- Prevalence of Salmonella shedding ranges from 1-5%
- · Significant economic consequences if an outbreak were to occur
- Reduce risk of hospital acquired infection and provide proof of compliance

From Dr. Nicola Pusterla, DVM, PhD, DACVIM, DAVDC- Equine:

"In an environment that is loaded with enteric organisms, you can imagine what's going to happen. If these animals contract infection and develop clinical Salmonellosis, not all of them will actually survive so that puts the animal at risk and then increases the hospitalization costs."

Current Methods vs Fluxergy



Stall-Side Benefits

- ✓ Save 1.5 days for Time to Result
- ✓ Faster Stall Turnover
- ✓ Better Biosecurity
- ✓ Pool Testing to Save Cost

How to Test for Salmonella at Your Practice

Fluxergy has developed a simple workflow to replace microbiological culture or sending environmental samples to the lab.



1. Swab stall or drain



2. Enrich sample overnight



3. Run PCR test in 1 hour



ASSAY PERFORMANCE

ENVIRONMENTAL SALMONELLA

Analytical Reactivity

This study is designed to assess the performance of Fluxergy PCR *Salmonella* Assay with *Salmonella* serotypes. Specific serotypes were selected due to their clinical relevance. A total of 20 serotypes were tested on the Fluxergy platform.

Salmonella enterica subsp. enterica, ATCC® 6994™ (Serovar Typhimurium) Salmonella enterica subsp. enterica, A36 (Serovar Typhimurium) Pos (3/3) 100 copies/rxn card	Organisms	Result	Concentration Tested
Salmonella enterica subsp. enterica, 15/5 (Serovar Abortusovis) Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, 64639 (Serovar Montevideo) Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, Strain IN01 (Serovar Tennessee) Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, 9640 (Serovar Dublin) Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, SARA23 (CDC B1722) (Serovar Saint Paul) Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, SL473 (CVM19633) (Serovar Schwarzengrund) Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, SL475 (CVM29188) (Serovar Kentucky) Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, SL485 (CVM35947) (Serovar Hadar) Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, SL491 (CVM36357) (Serovar Virchow) Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, 2004 Pennsylvania Tomato Outbreak, Serovar Anatum, Isolate 3 Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, 2004 Pennsylvania Tomato Outbreak, Serovar Muenchen, Isolate 3 Salmonella enterica subsp. enterica, 2004 Pennsylvania Tomato Outbreak, Serovar Muenchen, Isolate 3 Salmonella enterica subsp. enterica, 2004 Pennsylvania Tomato Outbreak, Serovar Thompson, Isolate 1 Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, 4004 Pennsylvania Tomato Outbreak, Serovar Thompson, Isolate 1 Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, 4004 Pennsylvania Tomato Outbreak, Serovar Thompson, Isolate 1 Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, 4004 Pennsylvania Tomato Outbreak, Serovar Thompson, Isolate 1 Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, 4004 Pennsylvania Tomato Outbreak, Serovar Thompson, Isolate 1 Pos (3/3) 100 copies/rxn card Salmonella enterica subsp. enterica, 4004 Pennsylvania Tomato Pennsylvania Tomato Pennsylvania Tomato Pennsylvania Tomato Pennsylvania Tomato Penns	Salmonella enterica subsp. enterica, ATCC® 6994™ (Serovar Typhimurium)	Pos (3/3)	100 copies/rxn card
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	Salmonella enterica subsp. enterica, ATCC® 9150™ (Serovar Paratyphi-A)	Pos (3/3)	100 copies/rxn card
Salmonella enterica subsp. enterica, BL6802 (Serovar Typhi) Pos (3/3) 100 copies/rxn card	Salmonella enterica subsp. diarizonae, CDC 01-0005	Pos (3/3)	100 copies/rxn card
	Salmonella enterica subsp. enterica, BL6802 (Serovar Typhi)	Pos (3/3)	100 copies/rxn card

LOD

Salmonella spp. was serially diluted in negative pooled environmental swab matrix down to 1CFU/mL. 1mL of 1CFU/mL was spiked into BD BBL™ Mycoflask™ Selenite Cystine Broth Prepared Media (BD 297711). Culture was incubated (G-Biosciences Incubator Shaker overnight at 37°C for 16 hours. The LOD of 1 CFU/mL was confirmed by detecting > 95% of 20 replicates tested.



ASSAY PERFORMANCE

ENVIRONMENTAL SALMONELLA



Cross-Reactivity Testing

Cross Reactivity of the Fluxergy Environmental *Salmonella* Test Kit was evaluated by wet-lab testing using the Fluxergy Analyzer. A panel of 23 microorganisms were tested at a concentration of 1X10⁵ copies/mL. **All organisms tested negative** in triplicate.

Study	Organisms	Results	Concentration Tested
Cross-Reactivity	Enterococcus faecalis B3119	Negative	1+E5 copies/mL
Cross-Reactivity	Escherichia coli KTE181	Negative	1+E5 copies/mL
Cross-Reactivity	Klebsiella oxytoca MIT 10-5244	Negative	1+E5 copies/mL
Cross-Reactivity	Acinetobacter radioresistens WC-A-157	Negative	1+E5 copies/mL
Cross-Reactivity	Micrococcus luteus SK58	Negative	1+E5 copies/mL
Cross-Reactivity	Burkholderia pyrrocinia 2327	Negative	1+E5 copies/mL
Cross-Reactivity	Enterococcus faecium TX1330	Negative	1+E5 copies/mL
Cross-Reactivity	Pseudomonas aeruginosa MRSN 315	Negative	1+E5 copies/mL
Cross-Reactivity	Shigella sp Strain D9	Negative	1+E5 copies/mL
Cross-Reactivity	Citrobacter portucalensis 4 7 47CFAA	Negative	1+E5 copies/mL
Cross-Reactivity	E coli Serotype O157 H7	Negative	1+E5 copies/mL
Cross-Reactivity	Listeria monocytogenes	Negative	1+E5 copies/mL
Cross-Reactivity	Streptococcus agalactiae	Negative	1+E5 copies/mL
Cross-Reactivity	Listeria ivanovii WSLC3009	Negative	1+E5 copies/mL
Cross-Reactivity	Citrobacter freundii	Negative	1+E5 copies/mL
Cross-Reactivity	Staphylococcus epidermidis	Negative	1+E5 copies/mL
Cross-Reactivity	Acinetobacter baumannii	Negative	1+E5 copies/mL
Cross-Reactivity	Shigella dysenteriae	Negative	1+E5 copies/mL
Cross-Reactivity	Bacillus subtilis	Negative	1+E5 copies/mL
Cross-Reactivity	Bacillus cereus	Negative	1+E5 copies/mL
Cross-Reactivity	Serratia sp Ag2	Negative	1+E5 copies/mL
Cross-Reactivity	Strep pyogenes MGAS9882	Negative	1+E5 copies/mL
Cross-Reactivity	Genomic DNA from Yersinia pestis, Strain PB6	Negative	1+E5 copies/mL