



Frequently Asked Questions -- PDX-LIB

- 1. Does PDX-LIB need to be stored at a certain temperature?** We recommend refrigerated temperatures and also storing away from any direct light.
- 2. How does PDX-LIB work?** PDX-LIB contains a patented formula of antibiotics, growth enhancers and color changing compounds. The antibiotics function synergistically to inhibit most *non-Listeria* microorganisms. Growth enhancers provide recovery nutrients to support the growth of sub-lethally injured *Listeria*. Indicator compounds will turn the broth from yellow/amber to brown/black by utilizing the 13-glucosidase enzyme produced by *Listeria* species. A brown to black color after 30-48 hours at 37°C indicates a presumptive positive test for *Listeria* spp.
- 3. What if the test is hazy or cloudy after 30-48 hours of incubation?** The test is still a negative unless you get a dark brown to black color. If there is doubt call PDX customer service at 651-226-0381
- 4. At what temperature is the swab incubated?** Body temperature: 98.6°F or 37°C.
- 5. What equipment is needed?** Only an incubator.
- 6. Can PDX-LIB be used for food contact surface testing?** Absolutely. They are applicable for food contact and non-food contact surfaces.
- 7. What should I do if I get a presumptive positive?** If you get a presumptive positive, re-clean by scrubbing if applicable, and sanitize the area where the sample was taken, and test again. Food contact surfaces should be sent for confirmation, non-food contact surfaces should be followed-up in a manner consistent with your HACCP plan.
- 8. How do you recommend disposal of presumptive positives?** Autoclaving is the recommended method of microbial waste disposal. Samples should then be disposed of in standard waste.
- 9. How fast is the test?** Presumptive results for most common *Listeria* spp can be obtained within 30 hours. However, 48 hours of incubation at 37°C is necessary to confirm a negative.
- 10. How sensitive is PDX-LIB?** Sensitive to as few as 1-10 CFU/ml for the most common *Listeria* spp.
- 11. Can PDX-LIB pick up heat-injured cells?** Yes, PDX-LIB can recover and detect as few as 10-50 heat injured *L. monocytogenes* (ATCC 19115) .
- 12. How will chemically or oxidized microorganisms respond to PDX-LIB?** They should respond the same as microorganisms from heat treatment. The genetic response from microorganisms is the same regardless of treatment. We chose heat treatment as our method of study.
- 13. How well does PDX-LIB work when other microorganisms are present?** This test has been shown to be superior for detection under binary competitive conditions for heat injured *L. monocytogenes*.
- 14. How comparable is PDX-LIB to the reference methods out there?** Comparable results to USDA method (PDX-LIB has < 1% false negative results; 4% false positive results in a study of 326 real environmental samples).

15. Will sanitizers hurt PDX-LIB media? There are three points to be made here. The first point is if the sanitizer affects our media it will affect all other existing approved media. The second point is the sanitizer will be diluted into PDX-LIB. In other words, the concentration of sanitizer will be so small that it will have no effect. The third point is the sanitizer will lose its effectiveness in the media since PDX-LIB contains organic nutrients. When organic nutrients are present, they will make the sanitizer ineffective.

Paradigm Diagnostics