



EMSL ANALYTICAL, INC.



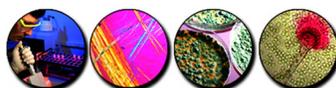
Rapid Detection of Pathogens in Food and Environment by PCR

Society has become acutely aware that infection-causing pathogens can be found in food, drinking water and the surrounding environment. Properly testing for pathogens is a very effective approach for preventing these infections. In spring and summer, *E.coli* O157:H7, *Salmonella*, *Clostridium botulinum* and *Shigella* are the common food borne bacterial pathogens. *Helicobacter pylori* and Enterovirus are often found in drinking water. Outdoor activities make children especially vulnerable to infections, so monitoring pathogens where they play is extremely helpful in protecting them. DNA-based rapid PCR detection offers expedient and reliable tests for pathogens. We offer PCR testing with results as quickly as within the same day the samples are submitted. Please call us for additional information.

EMSL's Rapid Pathogen Detection PCR Tests

Type	Pathogens	Test	EMSL Test Code
Bacteria	MRSA	qPCR	M203
	<i>Mycobacterium tuberculosis</i>	qPCR	M159
	<i>Mycobacterium avium</i>	qPCR	M144
	<i>E Coli O157:H7</i>	qPCR	M140
	<i>Salmonella spp.</i>	qPCR	M141
	<i>Shigella spp.</i>	USDA qPCR	F122
	<i>Clostridium botulinum</i>	FDA PCR	M206
	<i>Helicobacter pylori</i>	qPCR	M207
	<i>Chlamydophila psittaci</i>	qPCR	Call
Fungi	<i>Cryptococcus neoformans</i>	qPCR	M143
	<i>Histoplasma capsulatum</i>	NIOSH Nested PCR	M208
Virus	Enterovirus	qPCR	M142

In addition to pathogens, there maybe mold in our homes which can cause health issues such as allergy or asthma. The Environmental Relative Moldiness Index, ERMI (**Test code M180**) is the most popular rapid PCR test, it was developed by EPA. Recent clinical studies by EPA and Dr. Carolyn Kercsmar at Cincinnati Children's Hospital showed ERMI is a very useful tool to reduce asthma because it identifies causative agents in the homes. Mold PCR has also been used to detect water damage in homes. EMSL's PCR water damage panels (**Test codes: M181, M182 and M184**) and ERMI tests have been used by many environmental consultants to help home owners and property management to correct mold problems and improve the living quality in homes. Please visit our web at www.EMSL.com or call us at **800-220-3675** (East Coast) or **866-798-1089** (West Coast) for consultation.



EAST COAST (800) 220-3675 ♦ WEST COAST (866) 798-1089
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