



## BioWatch PCR Assays: Building Confidence, Ensuring Reliability: Abbreviated Version (Paperback)

By Committee on PCR Standards for the BioWatch Program, Board on Life Sciences, Division on Earth and Life Studies

National Academies Press, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book. BioWatch is an air monitoring system deployed in jurisdictions around the country with the goal of detecting the presence of certain high risk pathogenic microorganisms. It relies on a network of federal and nonfederal collaborative relationships to be successful, and is one part of a larger array of disease surveillance, intelligence-gathering, and biomonitoring activities in support of public safety and health. The assays used in the BioWatch system to detect the presence of pathogens in collected samples rely on the technique of polymerase chain reaction (PCR) to sensitively and specifically amplify target nucleic acid sequences. BioWatch PCR Assays evaluates and provides guidance on appropriate standards for the validation and verification of PCR tests and assays in order to ensure that adequate performance data are available to public health and other key decision makers with a sufficient confidence level to facilitate the public health response to a BioWatch Actionable Response. This report discusses principles of performance standards, reviews information from several existing guidance documents and standards that might be applicable to BioWatch, and discusses assay testing efforts that have occurred or are ongoing. BioWatch PCR Assays...



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