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February 16, 2015. Loop-mediated Isothermal amplification (LAMP), is an emerging technology that allows DNA amplification at a constant temperature. The key to this principle is the use of a DNA polymerase that possesses strand displacement activity. As a result of this property there is no need for heat denaturation of double stranded DNA in order to allow primer annealing and subsequent amplicon elongation. Loop-mediated Isothermal Amplification - Bitesize BioAbstract We have developed a novel method, termed loop-mediated isothermal amplification (LAMP), that amplifies DNA with high specificity, efficiency and rapidity under isothermal conditions. This method employs a DNA polymerase and a set of four specially designed primers that recognize a total of six distinct sequences on the target DNA. Loop-mediated isothermal amplification of DNA | Nucleic ... The development of the loop-mediated isothermal amplification (LAMP) assay has provided a new tool towards the development of a POC diagnostic test based on the amplification of pathogen DNA. LAMP does not require a thermocycler, is relatively inexpensive, and is simple to perform with high amplification sensitivity and specificity. Loop-mediated isothermal amplification (LAMP): An advanced ... The loop-mediated isothermal amplification (LAMP) method is based on the enrichment of parasite-specific nucleotide sequences, similar to PCR, but it is significantly faster and less susceptible to interference. Loop-Mediated Isothermal Amplification: An Advanced Method ... Abstract We have developed a novel method, termed loop-mediated isothermal amplification (LAMP), that amplifies DNA with high specificity, efficiency and rapidity under isothermal conditions. This method employs a DNA polymerase and a set of four specially designed primers that recognize a total of six distinct sequences on the target DNA. Loop-mediated isothermal amplification of DNA Loop-mediated isothermal amplification (LAMP) is a simple, rapid, specific and cost-effective nucleic acid amplification method when compared to PCR, nucleic acid sequence-based amplification, self-sustained sequence replication and strand displacement amplification. Loop-mediated isothermal amplification (LAMP) of gene ... Loop-mediated isothermal amplification (LAMP) is a rugged, low-cost method for specific DNA detection, with a visual readout. LAMP is especially useful in field settings for rapid diagnosis of plant pathogens or infectious disease agents like malaria, Zika, or tuberculosis. Table 2

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