METHOD FOR DETECTING THE PRESENCE OF DORMANT CRYPTOBIOTIC MICROORGANISMS

ABSTRACT

Method for the detection of dormant cryptobiotic microbes by detection of electromagnetic radiation emitted from intrinsic alkali earth metal pyridine dicarboxylic acid salts in the 710 nm to 860 nm region when excited with electromagnetic energy in the 610 nm to 680 nm region. Utilizing the novel lower energy emission of intrinsic calcium dipicolinic acid salts makes it possible to quickly detect bacterial spores, fungal spores and oocysts without the need for any added reagents, sample processing, or contact with the sample.