7th International Conference and Exhibition on

September 28-30, 2016 Orlando, USA

Bacillus in situ

and Agency for Defense Development, South Korea

Accurate and rapid analytical methods are essential for the detection and identication of biological warfare agents (BWA) as well as pathogens. Although various studies have investigated the uses of a matrix-assisted laser desorption/ionization time-of-sight (MALDI-TOF) mass spectrometry (MS) for bacterial classication, only a few studies have examined the applicability of method for the identication of BWAs. This study aimed to generate, collect and analyze Bac spore aerosol particles of 2-10 μm, the optimal size of a BWA. In this process, we developed an apparatus to directly deposit B. b aerosols on MALDI target plate wells for rapid MALDI-TOF analysis. Bac spore aerosol particles of 2-10 μm were rapidly analyzed using direct MALDI-TOF Miathout any pretreatment processes. The mass spectra of aerosolized Bacillus

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