

**Detection of Acetoin by head space-gas liquid  
chromatography for rapid identification of bacteremia  
caused by Klebsielleae**

王惠珀

**Ho SW;Shiueh PR;Wang HP**

**Abstract**

Head-space gas-liquid chromatographic (HS-GLC) detection of acetoin in 223 blood cultures of gram-negative bacilli was compared with results obtained from the conventional identification method. Seventy-three out of 76 cultures of Klebsielleae, including *Klebsiella pneumoniae*, *Klebsiella oxytoca*, *Enterobacter cloacae*, *Enterobacter agglomerans* and *Serratia marcescens*, were identified by the acetoin detection method with HS-GLC. One hundred and forty-six out of 147 blood cultures of other gram-negative aerobic and anaerobic bacilli did not produce acetoin. The findings indicate that the HS-GLC technique is a useful method with high sensitivity and specificity for identification of bacteremia caused by Klebsielleae.