

# Protein Profiling of *Escherichia coli* in response to Carbon source variation

**J Pramoda Kumari and G Mohan Naidu**

Assistant Professor, Dept. of Microbiology, S.V.University, P.G.Centre, Kavali – 524

201

## **ABSTRACT**

The response of *E.coli* to carbon source variation is well understood and it is commonly used as model biological system when validating an analytical method. We have characterized the proteins isolated from *E.coli* grown in glucose, lactose and acetate by using two dimensional polyacrylamide gel electrophoresis (2D-PAGE). The quantitative results obtained from our study (unpublished data) were comparable to other existing protein profiling and transcriptional profiling approaches.

**Key words :** Carbon metabolism, *E.coli*, Protein profiles.